

K. S. - Coleman

1791-2016

E. P. Kelly
Smithsonian Inst.
Washington.



No. 66 $\frac{1}{4}$

Journals 2 Columns no Units

Day Books

Cash Books “ “

S. E. Ledgers “ “

D. E. Ledgers Full Page Form no Units

Long Day Book no Units

Records with Margin Line

In 150, 200, 300 and 500 Pages

Made in U. S. A.

17291	Vernonia	H ^{woody below,} ± 3'	Panicle wh, styles purp
17292	Paspalum	H	Pachis & spikes deep purp
17293	Stipa	H	Infl. green
17294	Aristida	H	Infl. purplish
17295	Polypodium	H repent	
17296	Bahia	H 3-5'	Br. gr. purp, purp. ant.
17297	Marrubium	H	Cor. light gr., lobes Cor. light pi., lobes darker lobes blue spotted in
17298	Oralis	H succ.	Pet. y, red-stripped
17299	Agrostis	H	Infl. purplish
17300	Fuchsia	H 1.5-2', woody below	Calyx & pet deep red
17301	Coniaria	S 2-4', branches drooping	Anth. gr.
17302	Solanum	S 4-5'	Cor. gr. wh, anth. y
17303	Gaultheria	S 1-5'	Cor. rich pi.
17304	Myosotis	H 1-2.5'	Cor. light blue
17305	Moss	Damp logs	
17306	Hep.	" "	
17307	Moss	" "	
17308	Moss	" "	
17309	Buddleia	S 4-8'	Cor. orange
17310	Polygala	S 4-6'	
17311	Trerice	V	Infl. gr. wh
17312	Menaria	S 4-6'	Pet mag, anth. y.
17313	Solanum	S low	Cor w anth y; fr. black
17314	Jugia	S 3-5'	Rays wh, cor & sty. gr-w
17315	Polypodium	H ter	
17316	Barnadesia	S 6-8'	Br. purp. Rays rich pi
17317	Rubus	S 2-4', branches elevated	Pet. light pi; glaucous petals & sepals red
17318	Salvia	S 3-6'	Calyx gr., cor. bright red
17319	Salvia	S 5-10'	Calyx purpl, cor. bright red, lustrous
17320	Mucuna	S 8-15'	Ant. fl. purp. gr. wh
17321	Stevia	S 2-3'	Cor. light gr., deep pi throat lobes pi to wh
17322	Orchid	H ter.	Sep y-g; petals light y
17323	Comp.	S 8-10'	Rays bright y, florets dark

Jan. 16 Open, mostly rocky hillsides, vic. Vetas

3100-
3250m.

lobes pale, anth y.

17324	<i>Dryopteris</i>	H	
17325	<i>Laela</i>	H ^{er} ?	See notes
17326	<i>Vallia</i>	S 10-12'	Calyc. gr. pi., pet. rich pi.
17327	<i>Solanum</i>	S 2-4'	Cor. pure wh., anther y.
17328	<i>Castilleja</i>	S 1-3'	Br. gr. red, ^{cor. y.} dist.
17329	Grass	H	Heads purplish.
17330	<i>Vigularia</i>	H 1-2', branches along	Cor. rich pi. out, pale in
17331	<i>Echeveria</i>	H succ.	Pet. y.
17332	<i>Dryopteris</i>	H	
17333	<i>Alaplerium</i> <i>Vigularia</i>	H	G
17334	<i>Vigularia</i>	H	Cor. pale pi.
17335	<i>Fuchsia</i>	S	Sep. & pet. pi.-red.
17336	<i>Thibaudia</i>	S 1-2'	Calyc. deep gr., Cor. rich red, pale apex
17337	<i>Cestrum</i>	S 8-12'	Cor. green
17338	<i>Calceolaria</i>	H 1-1.5'	Cor. y. ^{glutinous}
17339	<i>Chaetopappus</i>	H	See notes
17340	<i>Verbena</i>	H coarse 4-6'	Cor. purple ^{richly var. v. littoralis}
17341	<i>Gnaphalium</i>	H 1-1' ^{rich} ^{capitulum}	Heads gr. wh.
17342	<i>Calceolaria</i>	H ± 1.5	Cor. y; pl. glutinous
17343	<i>Eupatorium</i>	H 2-3'	Cor. gr. wh., bract y. pi.-purp.
17344	<i>Myrsotis</i>	Herb coarse	Cor. wh.
17345	<i>Polypodium</i>	Creeping	
17346	<i>Peperomia</i>	H epiph.	
17347	Umbellif.	S 2-4' br. stems purplish along	Pet. y-g, anther wh.
17348	<i>Calceolaria</i>	S 5-8'	Cor. y.
17349	<i>Cyrtopteris</i>	H	(Stam. green for, deep purp. dist.)
17350	<i>Cleome</i>	S 8-10'	
17351	<i>Solanum</i> <i>Saurauya</i>	S 6-8'	Petals, anther y.
17352	<i>Berberis</i>	S 8-10'	Fls. purplish
17353	<i>Heiracium</i>	H	Heads golden y
17354	<i>Disymbrium</i>	H	Pet. light pi.
17355	<i>Amsinckia</i>	H	Cor. cream-wh.
17356	<i>Polypodium</i>	H	

Jan. 16 Open, mostly rocky hillside, Vico Vetes

3100-3250m

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thickets along stream

3100-3200m

- | | | | |
|-------|------------------------------|-----------------------------------|--|
| 17357 | <i>Pellaea</i> | H stems purple | |
| 17358 | <i>Montia</i> | H prostrate
H knotted | Pet. gr. wh. |
| 17359 | Grass | H weak | |
| 17360 | <i>Mimulus</i> | H " | Cor. y. |
| 17361 | <i>Fuchsia "acampanilla"</i> | S 3-4', branches
S dwarfing | Sepals, & Pet. red |
| 17362 | <i>Salvia</i> | H | Cor. bright pi. |
| 17363 | <i>Melilotus "cartilago"</i> | H prostr. | Pet. y |
| 17364 | <i>Digitalis</i> | H coarse | Cor. wh. |
| 17365 | Hep | on wet banks | |
| 17366 | " | on wet logs | |
| 17367 | Moss | " " " | |
| 17368 | Lichen | " " " | |
| 17369 | Moss | " banks | |
| 17370 | " | " " | |
| 17371 | " | " dec. logs. | |
| 17372 | <i>Marchantia</i> | " wet rocks | |
| 17373 | <i>Passiflora mixta</i> | V woody | See notes |
| 17374 | <i>Bomarea</i> | V herb | See notes |
| 17375 | <i>Mutisia</i> | V woody | Ray bright red, stam. red & purple. |
| 17376 | <i>Cardamine</i> | H | Pet. wh. |
| 17377 | <i>Phoradendron</i> | S epip. | Plant bright gr. |
| 17378 | <i>Salvia</i> | H 3-4' ^{semin-prostrate} | Cor. rich pi., w. at base |
| 17379 | <i>Eupatorium</i> | H 2-3' | Cor. gr. w., lobes & sty. bright pi. |
| 17380 | <i>Oxalis</i> | H 1-3' | Pet. y; ^{sepals} calyx red-purp |
| 17381 | <i>Salvia</i> | H | Calyx deep purp., Cor. rich pi. |
| 17382 | <i>Galium</i> | V herb | Dr. gr. |
| 17383 | <i>Loumaria</i> | H | |
| 17384 | <i>Besleria</i> | V herb | |
| 17385 | <i>Stipa</i> | H | Infl. purple |
| 17386 | <i>Fuchsia</i> | S 2-3' | Calyx tub. ad out, pi. w. pet. pi-red |
| 17387 | <i>Crastium</i> | V herb | Pet. wh. |
| 17388 | <i>Solanum</i> | S low | Cor. w. anthers y |
| 17389 | <i>Solanum</i> | S 3-6' | Cor. w. anthers y |

Jan. 16	Flushets along stream	Velas	3100-3200m.	17357
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			1	17389

17390	Marchantia	cr. wet rocks	
17391	Moss	on dec. logs	
17392	Hep.	" wet rocks	
17393	? alga	" " "	
17394	Moss	" dec. logs.	
17395	Calceolaria	S low	Cor. y
17396	Oxalis	H succ	Pet. y, red-striped
17397	Barbora	S 3-4'	Pet. or-y.
17398	Stroia	H ± woody	Cor. deep pi., lobes & styles pale
17399	Eschveria	H very succ.	
17400	Vicia	H herb	Sp. deep blue, wings light bl., heat nearly white
17401	Vicia	V herb	Pet. pale blue.
17402	Polypodium	H br. very stiff	
17403	Comp. "Mitraria"	H	Rays bright y, fl. darker
17404	Aster	H	Rays deep pi., fl. gr.-y
17405	Bidens	H	Rays bright y
17406	Geranium	H	Pet. deep pi., pale at base
17407	Grass	H	infl. deep purple
17408	Solanum	H	Cor. pink to red, wh in
17409	Plantago	H	
17410	Arnica	H viscous	Rays rich purp., fl. y-g
17411	Baccharis	S 4-6'	Pappus gr.-wh
17412	Jamesonia	H	
17413	Plantago	H caespitose	
17414	Galium	H matted	Dr. green
17415	Grass	H	
17416	Rumex	H	fls. br.-red.
17417	Moss	On soil	
17418	Polypodium	H	
17419	Peperomia	H herb?	
17420	Moumnia	S 1-2'	Pet. deep blue
17421	Geranium	H	Pet. rich pi.
17422	Espeletia	H	Rays y, fl. buds dark

Jan. 16 Trenches along stream
Open, mostly rocky hillside, Vic Vetas 3100-3250m

open hillside, edge of Paramo de Vetas 3400-3700m.

Paramo de Vetas 3400-3700m.

17423	<i>Sisyrinchium</i>	H	fl. blackish
17424	<i>Asplenium</i>	H	
17425	<i>Drymaria</i>	V herb	Pet. wh.
17426	<i>Myrtus</i>	S 5-8'	Pet. & fls. wh. anthers light
17427	<i>Pernettya</i>	S 1'	Calyx light gr., cor. wh.
17428	<i>Cornus</i>	H	Br. deep purpl. 'zees'
17429	<i>Eupatorium</i>	H	cor. gr. wh. ^{lower} & style wh. to filipii
17430	<i>Polylepis</i>	S 3-5'	Pet. wh.
17431	<i>Guaphalium</i>	H	Heads gr.-y
17432	<i>Vernonia</i>	S 3-4'	Br. deep purpl.; pap. wh.
17433	<i>Senecio</i> Engelm.	S low 1-1.5'	Young parts gr.
17434	Moss	On soil	
17435	Alga	In water	
17436	Moss	On rock walls	
17437	<i>Heliotropium peruvianum</i>	herb open soil	
17438	<i>Blechnum</i>	H	
17439	<i>Cheilanthes</i>	H	
17440	<i>Pellaea cordata</i>	V herb	
17441	<i>Sergania</i>	V ± woody	
17442	<i>Epidendrum</i>	H ter.	See notes.
17443	<i>Asplenium</i>	H	
17444	<i>Euphorbia</i>	H	Br. gr.
17445	<i>Coccoloba</i>	H weal	fr. bright blue
17446	<i>Tradescantia</i>	H succ.	fls. gr. wh.
17447	<i>Nucunia</i>	H 2-3' ± woody	fruits, calyx deep red
17448	<i>Meriania</i>	S	Pet. deep mag.
17449	Rub.	H 1-2' ± woody	fr. red.
17450	<i>Castilleja</i>	H	fr. gr. pur. red dist.
17451	<i>Castilleja</i>	H	
17452	<i>Mimulus</i>	H coarse, 1-2'	Cor. y.
17453	<i>Miconia</i>	S	Pet. wh.
17454	<i>Melastoma</i>	H coarse	anthers y. ^{not li?}
17455	<i>Centropogon</i>	V herb	Cor. fls., pale in

Jan. 16 Paramo de Vetas

3400-
3700m.

gr. wh., fl. y-g

stream, Vetas

3100-
3200m

19

California

2000m

just said to occur in *humilis*,
yard, probably introduced

18

dry hillsides

17

Charta ^{col. by M.} Ramirez

17456	Comp.	H	Ray wh
17457	Dichromena	H	Br. wh. prop
17458	?	Tree?	Fr. green, not ripe
17459	Psychotria Lyth	S ^{6-8'} , dec. ^{bracteoles}	Subs. v. bright red.
17460	Lythraceae	H	Pet. lavender
17461	Cuphea	H	Pet. deep pi.
17462	Hypericum	glance low	Pet. y., st. 15-20
17463	Senecio	"	Heads y
17464	"	H	Ray. lemon y, florets deep y
17465	Plantago	Hespetose	
17466	Grass	H	
17467	"	"	
17468	"	"	
17469	"	"	
17470	"	"	
17471	Senecio	glow	Heads y
17472	Werneria	Hesep.	Ray wh
17473	Polypodium	H	
17474	Lycopodium	H	
17475	Jaulsonia	H	
17476	Lycopodium	H	
17477	Polypodium	In clumps	
17478	Grass	H	Inf. purplish
17479	"	H	Inf. purplish
17480	Aquatic	H	
17481	Grass	H	
17482	Distichia	Forming clumps, leaves sharp-pointed.	
17483	Chamaeli	Hespetose	Pet. gr. wh.
17484	Geranium	Hespetose shrubby	Pet. deep pi.
17485	Nalemia	Hespetose	pale Cor. green
17486	Bekas	H [±] woody	Ray bright y, fl. darker
17487	Chactopappus	H shrubby	Ray wh; fl. deep pi
17488	Erigeron	H [±] woody, prostrate	Cor. wh.

Jan. 17	dry hillsides, Charta	col. by m. Rausing	1	17451
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17	Paramo Santurba	4080-4160m.	1	17458
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			1	17488

17489	Grass	H	
17490	Hypericum	S low compact	Pets y
17491	Arnica	H	Rays, rich purpl. fl. gr. y
17492	Castilleja	H	Cor. bright red.
17493	"	H	
17494	"	H ± woody	bract green; cor. deep red
17495	Bartsia	H	Cor. greenish purp., fr. dust.
17496	Hypericum	S low compact	Pet. y
17497	Slachys	H	Cor. rich pi.
17498	Elaphoglossum	H	
17499	Chaetopappa Senecio	S 2-4'	Rays wh., fl. greenish
17500	Tofieldia	S 1-2.5'	
17501	Baccharis	S low ± 1'	Pappus wh.
17502	Aucytophyllum	S 1-2.5'	Cor. wh.
17503	Senecio	S 2-3'	Fl. light y
17504	Pernettya	S low compact	Cor. wh., fr. pi. red
17505	Senecio	S low "	Bracts y, sep. light gr
17506	Cerastium	H	Fr. light gr., pet. wh.
17507	Malvastrum	H low flat on ground	Pet. pi.
17508	Azorella	H stem purplish	Pet. wh.
17509	Guaphalium	N	Heads y-g
17510	"	N	" "
17511	Olechemilla	S ^{subshrub} low compact	
17512	"	H	
17513	Senecio	S 1-2'	Bracts bright y
17514	Hypericum	S low compact	Fr. deep red
17515	"	" "	
17516	Halenia	H	Cor. gr light gr
17517	Calceitium	H	Bracts, gr. - y
17518	Aucytophyllum	S 2-4'	Cor wh.
17519	Stevia	H	Cor. purp., lobes pi.
17520	Senecio	H	Rays light y; fl. dark
17521	Halenia	H	Cor. gr. - y

Jan. 17 Paramo Santurbán

4080-
4160m.

Pets. y; stem . 25-30

faintly ^{faintly} pi., red striped

17522	<i>Senecio</i>	Shrub	Plants light y
17523	"	S 1-2'	
17524	<i>Baccharis</i>	S 1-2'	Pappus wh.
17525	<i>Gentiana</i>	H	Cor. gr., lobes pi.-blue,
17526	Lichen	Soil	(upper-lobes, pale at margin)
17527	"	"	
17528	"	"	
17529	"	"	
17530	Dep.	"	
17531	Moss	"	
17532	Lichen	"	
17533	"	"	
17534	Fungus	"	
17535	Lichen	"	
17536	Alga	Water?	
17537	Moss	Soil	
17538	"	"	
17539	<i>Cladonia</i>	"	
17540	<i>Werneria</i>	Herb	Ray wh., fl. y, br. gr. per. (upper dist.)
17541	"	Herb	" " " br. purplish, (upper dist.)
17542	<i>Gentiana</i>	H	Cor. clear, lobes bright blue
17543	<i>Gramin? lupinus?</i>	H forming mats	
17544	Lichen	Soil	
17545	"	"	
17546	"	"	
17547	Moss	"	
17548	Lichen	"	
17549	"	"	In 2 places
17550	<i>Werneria</i>	Herb esp.	Like 17541 but basal lvs wider
17551	<i>Quercus?</i>	H	
17552	<i>Disyminchium</i>	H	Apparently y
17553	<i>Corup. (Lobelia)</i>	H ± woody	Cor. oostyle, wh.
17554	<i>Lobelia</i>	H	Cor. bright blue, pale in

Jan. 17 Paramo Santurbán

4080-
4160m.

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3950-
4080m.

- | | | | |
|-------|----------------------|---|--------------------------------------|
| 17555 | Comp. | H | Rays gr. - wh |
| 17556 | Calceolaria | S 2-4' | Cor. bright y |
| 17557 | Lupinus | H woody | St. lilac, pale at center |
| 17558 | Vaccinium | S 1-6' | Cor. reddish pi. fr. with black |
| 17559 | Melastom. | S 8-12' | Pet. pi. anthers gr. |
| 17560 | Espeletia "fragrans" | "Trunk 6"-6', 4-10" diam., lvs. & fls. at summit. | |
| 17561 | Chacabilla | S up to 1' much
S 1-6' | Pet. yellowish |
| 17562 | Lichen | On branches of 17561 | |
| 17563 | Diplostegium | S 2-3' | Br. purplish, rays pale pi. |
| 17564 | Castilleja | H 4 woody | See notes |
| 17565 | " | H 4 | " " |
| 17566 | Halenia | H | Cor. gray green |
| 17567 | Hypericum | S low compact | Pet. bright y |
| 17568 | Halenia | H erect | Cor. light gr., open wh. |
| 17569 | Elaphoglossum | H | |
| 17570 | Plantago | H erect | Anthers light gr. |
| 17571 | Elaphoglossum | | |
| 17572 | Veronica | H erect | Lobs light bl, darker striped |
| 17573 | Grass | H | |
| 17574 | Grass | H forming dense mats | |
| 17575 | Juncus | H | |
| 17576 | Distichlis | H forming dense mats | tips of upper leaves
very sharp |
| 17577 | Senecio | S 8-15' | Rays y, florets darker |
| 17578 | Berberis | S 3-6' | Pet. bright y |
| 17579 | Cestrum | S 4-6' | Cor. pi. purp., lobes gr. |
| 17580 | Pereskia | S low comp. | Cor. pure wh |
| 17581 | Oreobates | S low | Sch. pinkish red, pet. apparently wh |
| 17582 | Orchid | H on epip? | Tube gr., all parts bright y |
| 17583 | Proustia | S slender glutin
S 4-12' | Cor. light pi, stam. red pi |
| 17584 | Othoranthus | H | Per. rich blue |
| 17585 | Coccolobus | S 4-8' | Triton red |
| 17586 | Thibaudia | S 6-10' | Cor. bright red, paler wh |
| 17587 | Comp. | | Rays bright y |

Jan. 17 Paramo Santurban

3950
-4080m.

work lilac

edge of paramo,

edge of paramo

3500-
3900m.

17588	Grass	H in clumps	Inf. deep pi.
17589	Melastom.	H 1-1.5' ^{woody at base}	Peti. arch. bright y
17590	Guaphalium	H caespit.	Inf. light gr. wh.
17591	Werneria	H " "	Rays wh.
17592	Lichen	On branches	Blackish
17593	Bidens	H	Rays bright y, fl. darker
17594	Plantago	H caespit.	
17595	Guaphalium	H in clumps	Heads yg.
17596	Lichen Ranunculus	H On dry twigs	Sepals
17597	Geranium	H ^{perennial}	Peti. deep pi.
17598	Stevia	H ^{turning repeat}	Cor. styles pure wh.
17599	Cryptophyllum	St ± prostrate	Cor. wh, pi. tinged out
17600	Boulesia	H	Peti. wh.
17601	Valeriana	H in clumps	Bracts pi, cor. pure wh.
17602	Stevia	St ± 1 ft.	Cor. o styles wh.
17603	Espeletia	H ± 1 ft.	Rays highly, heads dark
17604	Palenina	H caespit.	Cor. light gr.
17605	Lycopodium	H repent.	
17606	Eupatorium	H ^{woody below}	Cor. gr. wh., lobes styles
17607	Calceolaria	S 1.5-3'	Cor. bright y
17608	Senecio	S 2-5'	Heads light y
17609	Vaccinium	S ^{flower part} 3-4'	Cor. rich pi.
17610	Verbesina	S 4-6'	Rays fl. H
17611	Castilleja	S 1.5-2', slender	Up. bracts, bright red dist. calyx red out, y in; cor. red.
17612	Gnaphalium	S low compact	Calyx deep pi.
17613	Polypodium	H repent.	
17614	Pelbunium hypocarpium	VH	Frut. light red
17615	Vicia	VH	Peti. light bl., paler prox.
17616	Horaceum	H	Bract black-purple
17617	Phleum	H	Cor. gr. wh., lobes pink
17618	Grass	H	Inf. purplish
17619	"	H coarse	Inf. pi. when young
17620	Werneria	H caesp.	Rays wh. nt. fl. y.

Jan. 17 ^{edge of paramo} Paramo de Santurbaín

3500 -
3900 m.

Paramo de Santurbaín

3950
-4080 m.

18 Paramo de Mogotocoro

3900 -
3800 m.

sample

Jan. 18 Paramo de Mogotocero

3700 -
3800 m

17654	<i>Oxypterus</i>	H	
17655	<i>Moss</i>	On soil	
17656	<i>Alga</i>	moist soil?	
17657	<i>Polytrichum</i>	On soil	
17658	<i>Moss</i>	" "	
17659	<i>Hypericum</i>	S-6-10'	Pet. bright y
17660	<i>Bascharia</i>	S 3-4'	Pap. wh.
17661	<i>Aster</i>	H	Rays wh; florets y
17662	<i>Halenia</i>	H comp.	Cr. light gr., spur wh.
17663	<i>Gnaphalium</i>	S low	Cr. deep pi.
17664	<i>Rebennium</i>	V. shrub	Pr. or. red.
17665	<i>Elaphoglossum</i>	H	
17666	<i>Meriania</i>	S 3-4'	Pet. mag.
17667	<i>Espeletia</i>	H	Rays bright y, fls. deep y
17668	<i>Persea</i>	S 6-12' trees	Pr. purplish
17669	<i>Diplosiphium</i>	S low	Rays wh.
17670	<i>Rumex</i>	H upright	Sep. light y
17671	<i>Alchemilla</i>	H forming mats	
17672	<i>Comp.</i>	H	Rays wh.
17673	<i>Geranium</i>	H	Pet. y.
17674	<i>Bidens</i>	H	Rays bright y
17675	<i>Geranium</i> (very distinct)	H erect	Pet. deep pi.
17676	<i>Veronica</i>	H ± upright	Cr. bright blue
17677	<i>Mimulus</i>	H	Cr. y.
17678	<i>Paspalum</i>	H	
17679	<i>Phleum</i>	H	
17680	<i>Grass</i>	H	
17681	<i>Clematis</i>	H comp.	Rays wh.
17682	<i>Lobelia</i>	H	Cr. bright blue
17683	<i>Vaccinium</i>	S 10-15'	Cr. pure wh.
17684	<i>Comp.</i>	S 3-4'	Cr. gr.-y.
17685	<i>Cerastium</i>	H	Pet. wh. ligate
17686	<i>Senecio</i>	H	Pr. purp.-tip, ligate Pap. gr.-y.

Jan. 18 Paramo de Negotocoro

3700 -
3800 m.

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Paramo de Rio

3750 -
3850 m.

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17687	<i>Cladonia</i>	On soil	
17688	Moss	" "	
17689	<i>Alga</i>	wet soil	
17690	<i>Lasiacis</i>	V herb	
17691	Orchid	H Epip??	3 sep. deep pi, wh. at base; inner parts wh.
17692	Moss	On soil	
17693	<i>Eupatorium</i>	H ^{4-6' deep} S 2-4'	All parts pure wh.
17694	<i>Hypocnemis</i>	S 3-6'	Pet. bright y; st. ± 30
17695	<i>Salvia</i>	H	Deep purp. dist. & sty. purp; cor. deep pi-purplish
17696	<i>Nyctotia</i>	H	Cor. bright blue
17697	<i>Castilleja</i>	S 3-6'	Br. y. purp, bright red dist. calyx
17698	<i>Thurbergia</i>	S 6-12'	Cor. deep pi, gr. y at apex
17699	<i>Calceolaria</i>	S 2-4' plant very glutinous	Cor. bright y
17700	<i>Eupatorium</i>	S 6-12' plant glutinous	Cor. & style deep pi when y, light gr. when older
17701	<i>Bomarea</i>	V herb	See notes
17702	<i>Salvia</i>	H 1-4'	Calyx deep purp. Cor. bright blue, faint at base
17703	<i>Phytolacca</i>	H 3-5'	Anth. gr., rest of fl. rich pi.
17704	<i>Centropogon</i>	S	Cor. red
17705	<i>Wegandria</i>	H 1.5-3'	Cor. bright blue
17706	<i>Cyathia</i>	H	
17707	<i>Elaphoglossum</i>	H	
17708	<i>Polypodium</i>	H rep.	
17709	<i>Oxalis</i>	H rare low red beneath	Cor. Calyx pi-purp. Pet. y, red-otupied
17710	<i>Niconia</i>	T 12-15' slender	Pet. of fil. gr. wh., anthers wh.
17711	<i>Peperomia</i>	H rep.	Spikes gr.
17712	<i>Asplenium dissectum</i>	H	
17713	<i>Polypodium</i>	H rep.	
17714	<i>Myrsineae</i>	S 8-12'	Cor. fil. wh., anthers gr.
17715	<i>Eupatorium?</i>	S 8-10' plant glutinous	Cor. pi, lobes & sty. wh.
17716	<i>Arenaria</i>	H weak	Pet. wh.
17717	<i>Paeipflora</i>	V herb	
17718	<i>Calceolaria</i>	S	Cor. bright y
17719	<i>Refaria</i>	T 12-15'	Calyx & cor. variegated with a strong green calyx deep gr. Cor. red

Jan. 18 Paramo de Rico

3750-3850 m.

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18 open hillside

California

2000 m.

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19 Paramelo, below Paramo de Rico

3500-3600 m.

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wh. at base.

Cor. pi, upper lip "green"

Paler at base; style red

17720	Eupatorium	H ± woody	Cr. gr. wh, lobes sty. ^{knifed} pi.
17721	Bomarea	✓ herb.	See notes
17722	Halimia	H	Cor. light gr, spur wh.
17723	Osteomeles	T 12-15'	Fruit reddish-br.
17724	Berberis	S 8-12'	Pet. bright y, fr. deep red
17725	Jamesonia	H rep.	
17726	Miconia	S 8-12'	Pet. & style wh. ^{stam.} gr. wh.
17727	Vaccinium	86-10'	Calyx light gr. Cor. light pi.
17728	Senecio	56-8'	Cor. gr. wh, disk. y. styles gr.
17729	Moss	in black soil	
17730	"	in soil	
17731	"	" "	
17732	"	" "	
17733	Lichen	" "	
17734	"	" "	
17735	Hep.?	On trees?	
17736	"	" "	
17737	Moss	" "	
17738	Lichen	" black soil	
17739	Moss.	On trees	
17740	Eupatorium	H #	Cor. gr. wh, lobes o sty. rich pi.
17741	Elaphoglossum	H rep.	
17742	Cestileya	8 4-6' tangled in thickets	Br. gr, reddish. ^{sep. red} y. ^{sep. red} y. ^{sep. red} y.
17743	Pernettia	8 2-4'	Cor. pure wh.
17744	Thibaudia	8 8-15'	Calyx brown, cor. bright
17745	Gaultheria	8 slender 2-4'	Cor. rich pi.
17746	Diplostefium	8 br. drooping T 15-18'	Br. y. g, sep. wh. cor. light gr.
17747	Weinmannia	T 15-30	Pet. cream wh.
17748	Elaphoglossum	H rep.	
17749	Lycopodium	H epip.	
17750	Moss	On trees	
17751	Polypodium	H epip.	
17752	Jamesonia	H #?	

Jan. 19 Paramela below Paramo Rico

3500-
3600 m

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Woods, western slopes of Paramo Rico 3500m

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17753	Passiflora	V herb	
17754	Sibthorpia	H rep. los reddish beneath	Cor. pinkish - purple
17755	Fuchsia	S low, branches drooping	Cor. pinkish - red, calyx tube, lobes lighter, petals darker
17756	Hymenophyllum	H epip.	
17757	Asplenium	H epip.	
17758	Elaphoglossum	H epip.?	
17759	Hymenophyllum	H epip.	
17760	Dryopteris	H ter	
17761	Secur. Comp.	H 2-4'	Cor. y-g.
17762	Lycopodium	H epip.	
17763	Lonaria	H ter	
17764	Oxalis	H we.	Cor. reddish base.
17765	Hydrocotyle	H rep.	Pet. y. with faint red stripes
17766	Cardamine	H	Stems, purple, fr. gr. Pet. white
17767	Centropogon	V woody	Cor. light red, pale pi. in
17768	Asplenium	H epip.	
17769	Eupatorium	S 5-10'	Cor. white, apparently pinkish
17770	Melastom.	S small et. 10-20'	Pappus pinkish
17771	Fuchsia	S with drooping branches	Pet. deep red, fil. pi. with purple
17772	Veronica	H	Calyx & sep. light red. Pet. darker, with light gr.
17773	Centropogon	S no notes	Cor. bright bl., whitish base
17774	Cestrum (fr. 17224)	S	Cor. red, tube pi. in
17775	Dendropanax	T 40-70	Fr. black
17776	Bromelia	H epip.	Fr. green
17777	Dichaea	H epip.	Br. gr. purp. red dist. sep. light gr. wh. Fr. light gr.
17778	Gardouquia	S 2-4'	Cor. rich pi, gr. at base
17779	Dendropanax	T slender 12-15'	Br. reddish-brown
17780	Rubus	V woody whole plant sticky	Pet. deep pi.
17781	Hypericum	S 5-8'	Pet. brightly, at. ± 25
17782	Ploradendron	S epip.	
17783	Ploradendron	S epip.	
17784	Berberis	S slender 5-12'	Fr. reddish
17785	Vaccinium	S 6-8'	Cor. wh.

Jan. 19 woods, western slopes of Paramo ^{Rio} 3300 - 3500m.!

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| 17786 | <i>Alonsoa</i> | H | Cor. light red |
| 17787 | <i>Hymenophyllum</i> | H epip | |
| 17788 | <i>Mucuna</i> | On dry branches | Purplish caps |
| 17789 | <i>Adontoglossum</i> | H ter. | See notes |
| 17790 | <i>Aralia</i> | T 15-25' | |
| 17791 | <i>Disterigma</i> | S refert | Cor. wh. |
| 17792 | <i>Muehlenbeckia</i> | V herb. | Pet. gr.-y |
| 17793 | <i>Dryopteris</i> | H | |
| 17794 | <i>Polypodium</i> | On trees? | |
| 17795 | <i>Pittacanthus</i> | S epip. | Calyx tube bright red
Pet. bright y. |
| 17796 | <i>Miconia</i> | S 5-12' | Calyx light gr.
Pet. anth. of petals wh. |
| 17797 | Moss | On trees? | |
| 17798 | Lichen | On dry branches | |
| 17799 | Hep | " trees | |
| 17800 | <i>Marchantia</i> | Soil? | |
| 17801 | H Moss | On soil | |
| 17802 | " | " wet logs | |
| 17803 | " | " tree trunks | |
| 17804 | Hep. | " wet logs? | |
| 17805 | <i>Cladonia</i> | " tree trunks | |
| 17806 | <i>Elaphoglossum</i> | H epip. | |
| 17807 | <i>Peperomia</i> (missing) | H epip. | lvs. light gr. beneath
Sp. gr.; stems purple |
| 17808 | <i>Eupatorium</i> | S slender
4-5' | Cor. wh. prox. dist. lobes
red pi.; styles w. |
| 17809 | <i>Myrsinaceae</i> | S 8-15' | Dried gr. |
| 17810 | <i>Bomarea</i> | V herb. | See notes |
| 17811 | <i>Cyathea</i> | H | |
| 17812 | <i>Jamesonia</i> | H | |
| 17813 | <i>Peperomia</i> | H epip. | |
| 17814 | <i>Oxalis</i> | | Sepals pi., pet. y. red
striped |
| 17815 | <i>Cibotium</i> | caudex succulent
1-2'; fr. (incl. stipe) 5-6' | |
| 17816 | Comp. | S 8-10' | Cor. or. y. |
| 17817 | <i>Drimys</i> | T 20-30' | Pet. wh., pr. gr. |
| 17818 | <i>Centropogon</i> | V woody | Cor. light gr. ventrally |

Jan. 19 Woods, western slopes of Paramo Rio 3500-3500m.

3100-
3300m.

pet. - or. + lobes

- 17819 *Bouarea* ✓ herb
 17820 *Centropogon* ✓ woody
 17821 *Cyathia* ✓ tree fern
 17822 *Stelia* H epip.
 17823 *Polypodium* H ref.
 17824 *Meriania* S 5-8'
 17825 *Passiflora nixta* ✓ woody
 17826 *Achyrocline* S 1-3' br.
 17827 *Calceolaria* S 3-5' drooping
 17828 *Centropogon* ✓ woody
 17829 *Centropogon* S 2-3'
 17830 *Vallea* S 12-20'
 17831 *Passiflora* ✓ woody
 17832 *Malaxis* H epip.
 17833 *Centropogon* ✓ herb.
 17834 *Meriania* S 12-18
 17835 *Liabum* S 6-8'
 17836 *Polypodium* H ref.
 17837 *Oxalis* H spec.
 17838 *Cystopteris* H
 17839 *Hymenophyllum* H on banks
 17840 *Orchid*
 17841 *Idem* On lvs. of 17840
 17842 *Anthurium* H ter.
 17843 *Anthurium* H ter.
 17844 *Myrsineae* S 5-12'
 17845 *Buddleia* S 10-15' branches
 17846 *Elaphoglossum* H ter.
 17847 *Polypodium* H ter.
 17848 *Anthurium* H ter.
 17849 *Centropogon* ✓ woody
 17850 *Bouarea* ✓ herb
 17851 *Melastomac.* S 3-6'

Out. o. cum dull red.

Cor. light red; pale pi. in

Caudex 10-20', fr. 10',
 3rd light gr., inner cream

Pet. rich p. out, wh.

Invol. gr. ventr., red. br.

Head gr. y

Cor. bright y

Cor. light red, pi. in

Cor. or. red, lobes dup y

Pet. reddish-pi.
 Column = 19825 fr. just
 purple bud 67. cor. lacking

Sep. light gr.

Cor. light red, lobes
 or. y; lvs. pinkish br.

Pet. pink

Ray bright y

S. red, sep. pi., pet. y, red

3 sep. gr. pi. per. y. y. clut.
 with purp. spots in stripes

Dr. gr.

Cor. or.

Cor. red, pale pi. in

Calyx gray, deep red

Pet. wh. fil. pi. wh. ant.

Jan. 19 ~~1982~~ western slope of Paramo Rico - 3300 m.

stepe 2'

pi. tinged or., fil. wh., styles pi. wh., purple between
 brachy tube y-g., sep. pi. or.; tube wh. in; cor. in 2 series

inside y

striped.

2 sep. light gr. purple-dotted
 (old out.) col. wh. y at apex

purplish

- 17852 *Begonia* S 8-12' Sep. pi. wh., ant. y.
 17853 *Alchemilla* H. prostrate, below Pet. gn.
 17854 *Cibotium* he fern Under crest, 2-3'
 17855 *Palicourea* H. shrubby Cor. light y., lobes wh.
 17856 *Cephaelis* S 5-8' Bracts y. with imbricate hairs
 17857 *Thibaudia* S 10-15' Cor. lobes, & cal. wh.
 17858 *Bomarea* V. herb Calyx g. Cor. pi. red & wh.
 17859 *Pteris* H. both per. parts red
 17860 *Columnnea* H. ter. Bracts g. - pur. above, Cor. light red, y. g. apex
 17861 *Grass* H.
 17862 *Rubus* V. woody Pet. deep pi.
 17863 *Solanum* S 3-8' Cor. wh., ant. g. wh.
 17864 *Sandropanax* T 18-25' Fr. gn.
 17865 *Marchantia* Moist bank
 17866 *Funaria* Under logs
 17867 *Elephoglossum* On rocks
 17868 *Lichen* On trees
 17869 *Marchantia* Damp soil
 17870 *Moss* Decayed log
 17871 *Lichen* On trees
 17872 *Oenothera* H. flowering after sundown Petals pure wh.
 17873 *Thibaudia* S "Buena tarde" cal. pale p., cor. w., becoming
 17874 *Solanum* H 3-4' pet. w. ant. br.
 17875 *Centropogon* H 2-4' cal. br. ant. y.
 17876 *Centropogon* V. V. pet. deep pur.
 17877 *Centropogon* S 12-15' cor. deep r.
 17878 *Centropogon* S 8-12' rap. y. cor. y., pap. pale
 17879 *Centropogon* S 8-15' pet. light p., style r.
 17880 *Centropogon* S 8-15' ant. br.
 17881 *Centropogon* S 8-15' cal. y. w. cor. tube pale y.,
 17882 *Centropogon* S 8-15' lobes light
 17883 *Centropogon* F in crevices of rock cal. p. out. paler in. faintly
 17884 *Centropogon* H. V. pet. y. becoming g. at apex
 17885 *Centropogon* H. V. sep. light o. paler in. pet.
 17886 *Centropogon* T 12-15' fil. aty. stig. y. lobes
 17887 *Centropogon* H. coarse. cal. deep g. pet. y.
 17888 *Centropogon* H. 6-9'

Jan. 19 Woods, western slopes of Paramo Rico 3100 - 3300 m.

21 crevices of rocks California 2000 m.

woods
 22 open hillsides, vic. of Uetas 3000 - 3200

thickets

Open hillside thickets
 pur. spotted at apex in style pale y.
 pur. " " in fil. pale y. ant. brownish
 r. tinged at apex, deep pur. spotted in.
 g. rr.

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- 17885 comp. S. 8-15' ray w. cor tube + lobes + sty. o.y.
 17886 S. 4-6' cal. g. lobes g. y. stig. y. g.
 17887 Solanum S. 8-12' pet. w. sty. y.
 17888 Eupatorium T. 12-15' br. g. cor. tube g. be- coming paler dist.
 17889 Alnus T. 12-20'
 17890 Maunung T. 12-15' pet. deep. b.
 17891 *Pluchium cordatum* (d. var.) H. var. F. moist banks
 17892 Euphloglossum F. in crevices of rock
 17893 Euphloglossum F. "
 17894 Eryngium H.
 17895 Rubus U. V.
 17896 Presine H. coarse 4-6'
 17897 Berberis? S. 8-12' fr. (young) g.
 17898 Salvia H. 3-6' cor. br. r.
 17899 (leg) H. V. kept & under br. fur, stem paler
 17900 Polypodium F.
 17901 Melastom. H. coarse
 17902 comp. H. 4-8' cal. pale g. pet. y. fr. t. ant. y. tube
 17903 Eupatorium S. 3-5' lobes he, sty. y. br. g. cor. tube pur. becoming paler to w. at lobes
 17904 Tournefortia T. 5-8' cal. g. cor. tube pale g. becoming w. at lobes
 17905 comp. H. pale g. lobes y. pale g. lobes y.
 17906 Cuscuta H. V. prostrate cal (?) pale y. ovary y. cor pet. w.
 17907 Rubus U. V.
 17908 (comp) *Stevia* H. 2-3' cal. g. cor tube g. w. lobes p. paler w. sty. p. styles paler
 17909 Tournefortia S. 8-10' bran. very droop. cal. g. cor tube g. pet. w. ant. y. lobes pur. w.
 17910 Solanum S. 12-15' pet. w. ant. y.
 17911 Cystopteris F. rocky soil
 17912 Pityrogramme F. in crevices of rock wall
 17913 Alchemilla H. dry soil
 17914 comp. H. br. g. ray. w. cor. tube g. becoming paler dist.
 17915 Solanum H. pet. w. ant. y.
 17916 Solanum S. 10-15' pet. w. ant. y.
 17918 grass H. in moist places

Jan. 20. thickets

vic. Velas

3000
3200sty. w.
lobes w.

open hillside

thickets

o. h.

sty. cream w.
thickets

lobe

open hillside

lobes y. sty. y.
thickets

o. h.

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- 17918 *Vaccinium* S 1-2' cal. cream w.
 17919 *Eupatorium* S 15-18' cor. pure w.
 17920 *Passiflora* H.V. lobes w. sty. w.
 17921 *Pteris* F. no fl.
 17922 *Peperomia* E.H.
 17923 *Passiflora* H.V. no fl.
 17924 *Osteospermum* S 6-8' cal. g. pet. w.
 17925 *Polypodium* F. on moist banks. ant. reddish
 17926 *Centropogon* ~~H.V.~~ S 6-8' cor. br. r.
 17927 *Monnina* S 4-6' pet. deep pur.
 17928 *Alnus* T 8-14'
 17929 *orchid.* H 3-5' tube greenish, sep. y.
 17930 *Weinmannia* S 6-8' pur. spot at apex
 17931 *orchid.* H. on rocks cal. g. gran. p.
 17932 *Tryopteris* F. sep. paler.
 17933 *Muhlenbergia* H. rocks sep. pur, yellow
 17934 *Escallonia* F. cal. g. pet. p.
 17935 *Calandrinia* H.V. T 15-25'
 17936 *Brickellia* H. pet. br. b.
 17937 *Elaphoglossum* H. pet. br. b.
 17938 *Rapanea repens* F. crev. of rocks
 17939 *grass* S 3-5' cal. + lobes g. w.
 17940 *orchid* H. terr. tube g. to y.
 17941 *moss* H. on soil sep. y. faintly spot.
 17942 *moss* on dry banks
 17943 *lichen* on soil in crev. of rock
 17944 *moss* moist soil.
 17945 *moss* on rocks
 17946 *geranium* H. pet. purp.
 17947 *Lomana* F. sep. (?) pur.
 17948 *Bartonia* H. cor. pet. g. y.
 17949 *Vaccinium* H. S. bro. beneath
 17950 *Cystopteris* F. in crev. of rock cor. p.

- Jan. 20. thickets vic. Vetas 3000-3200
 Jan. 21 o.h. Jaramillo vic. Vetas 3500-3600
 out. 2
 edge of farano Santurben 3600-3800
 Jaramillo vic. Vetas 3500-3600
 edge of farano Santurben 3600-3800

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|-------|----------------------|--|
| 17951 | <i>Elaphoglossum</i> | F in crev. of rock |
| 17952 | <i>Polypodium</i> | F. " " |
| 17953 | comp. | H. bracts gr. br. rays br. cor. tubes y. lobes y. |
| 17954 | <i>Marchantia</i> | moist soil beside running stream |
| 17955 | hepatic | bottom of running stream |
| 17956 | moss | moist soil |
| 17957 | moss | " " |
| 17958 | <i>Polypodium</i> | crevices of rock |
| 17959 | <i>Polypodium</i> | " " " |
| 17960 | grass | H slender bracts y. cor. tube pale y. lobes br. y. |
| 17961 | <i>Senecio</i> | 5-8' cal. y. pet. y. sta. styles y. |
| 17962 | <i>Hypericum</i> | 5-10' H 3-5' |
| 17963 | grass | H. rooting in mud in shallow water |
| 17964 | <i>Isote</i> | F at margin. Usually submerged. |
| 17965 | comp | F. moist soil. br. g. rays w. pale y. lobes |
| 17966 | grass | H. soil cor. tube pale y. lobes |
| 17967 | <i>Lycopodium</i> | H 4-6' |
| 17968 | <i>Lycopodium</i> | F crevices of dry rocks |
| 17969 | <i>Solanum</i> | F moist soil |
| 17970 | <i>Elaphoglossum</i> | T 12-18' pet br. b. ant. y. |
| 17971 | <i>Sphagnum</i> | F in crevices of rock |
| 17972 | moss | on moist soil |
| 17973 | hepatic | on bottom, running streams |
| 17974 | moss | " " shallow borders of lagoon. |
| 17975 | geranium | H pet. p. |
| 17976 | <i>Alchemilla</i> | 5-6" cal pale y. cor. lobes pale y. lobes y. |
| 17977 | <i>Elaphoglossum</i> | F crev. of rock |
| 17978 | Umbel. | H. |
| 17979 | <i>Werneria</i> | H. br. g. rays w. pale y. |
| 17980 | comp | H. br. g. rays y. cor. tube, lobes, & sty. y. |
| 17981 | geranium | H. petals pale pink p. |
| 17982 | <i>Habenaria</i> | H. cal. y. cor. y. w. |
| 17983 | <i>Clivelanthus</i> | F. |

Jan. 21	edge of paramo San Urbain	3600 2800
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borders of Lagoon de Cunta 3880

but often aquatic and even entirely terrestrial.
br. x.

parano Frailejonalle
Frailejonalle

- 17984 *Passiflora* H. 2-3' sep. (?) q. to pur.
 17985 moss on rocks
 17986 " " "
 17987 " " "
 17988 " " "
 17989 *Rubus* W.V. pet. p.
 17990 *Escallonia nsp.* S. 6-10' cal. g. pet. w.
 17991 *Vigularia* H. 1-2' cor. pale p.
 17992 grass H. ~~1-2'~~ cor. pale b.
 17993 *Tridacena* H. 6-10' cal. g. cor. tube rich p. becoming paler at lobes, paler in
 17994 *Thibaudia* S. 8-12' sep. p. q. in center pet. same. rich p. becoming deeper dist.
 17995 *Phyllanthus* T. 8-12' or 5 with
 17996 *Solanum* V. scan. bran. cor. w.
 17997 comp. S. 8-10' br. g. ray. y. cor. tube
 17998 orchid H. terr. sep. pale y. striped
 17999 *Centropogon* W.V. cor. rich p.
 18000 *Passiflora* H. V. descr. in notes
 18001 comp. S. 8-12' br. g. ray. w. cor
 18002 *Cupatzenium* S. 6-10' tube g. y. lobes y.
 18003 *Rhipsalis* F. cor. tube pale pur, striped with deeper pur.
 18004 *Cuphea* H. 2-3' H. bran. elong. lobe deep. pur.
 18005 grass H. V. ~~1-2'~~
 18006 grass H. V.
 18007 *Parosela* S. 6-12' pet. b.
 18008 *Epilobium* H. tube g. to p. sep. p.
 18009 *Nyctia* S. 2-3' cal. g. tinged with pur, cor. tube g. becoming pur.
 18010 *Solanum* S. 4-5' pet. w. ant. y.
 18011 *Claphoglossum* F. S. bran. erect.
 18012 *Eclites* H. V. cor. tube & lobes y, paler prox.
 18013 *Thibaudia* S. 6-8' fr. g.
 18014 *Salvia* H. pet. br. b.
 18015 moss moist soil
 18016 " " "

Jan. 21 Paramo Trallejonalle

Jan. 22

between Uetas
and S. G.2300-
2800

lobes 23. open hillsides vic. La Baya

2500-
26002900-
2400

- 18017 moss
 18018 lichen
 18019 "
 18020 "
 18021 Solanum
 18022 Cornucopia
 18023 Pilea
 18024 grass
 18025 Anagallis
 18026 Silene
 18027 Cystopteris
 18028 Piper
 18029 Bauhinia
 18030 Nephrolepis
 18031 Acaena
 18032 Asplenium
 18033 Galium
 18034 (rubel.)
 18035 Miconia
 18036 Polypodium
 18037 Weinmannia
 18038 Cestrum
 18039 Phyllanthus
 18040 Yanttheria
 18041 Weinmannia
 18042 "
 18043 camp. "anime"
 18044 grass
 18045 Alabancilla
 18046 Aclerodactylus
 18047 Eupatorium
 18048 Eupatorium
 18049 Vaccinium

- mud soil
 rocky banks
 "
 "
 "
 "
 H. 3-4' cor. w.
 H. sub can. ant. y.
 F.
 H. pet. cream. w.
 H.
 H. pet. br. b.
 H. cal. q. striped with pur.
 H. cor. tube q. becoming
 F.
 S. 6-8'
 H. U. sep. out, y. w. in pur.
 H. U. in at apex fil. pale
 H. pros. fr. r.
 S. 1-2'
 F.
 H. pro. fr. q. y.
 H. slender. pet. w.
 S. 3-4'
 F.
 T. 10-15'
 S. 8-10' fr. q. tinged with p.
 S. 4-5' br. q. ting. with p.
 S. 1-2' br. (?)
 S. young fr. q. pale q.
 T. 25-30' diam pale q.
 S. 4-6' but ap. sep. q. ting.
 S. parvity dwarfed with p.
 T. 20-25' trunk br. q. ray. y.
 T. 1-3' diam cor. tube q. y.
 H.
 H. bran. semi pro.
 H. 2-3' bra. (sep.?) q. w.
 H. 2-3' br. q. cor. tube q. p.
 S. lobes pale p. sty. p.
 H. cal. p. cor. tube p. lobe
 at lobes.
 S. 6-8' cal. pale q. cor. w.

Jan. 23. open hillside ^{vic} above La Baja 2600

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- 18050 Solanum
 18051 Pelbium
 18052 (melast.)
 18053 Myrica
 18054 Elaphoglossum
 18055 Brunelia "salsbrillo"
 18056 Brunelia
 18057 Hemionia
 18058 Bauhinia
 18059 Myrtolacca "guava"
 18060 Calceolaria
 18061 "
 18062 Eupatorium
 18063 Osteospermum "mortuaria"
 18064 Pteris
 18065 Muehlenbergia
 18066 lichen
 18067 moss
 18068 "
 18069 "
 18070 "
 18071 " earth banks
 18072 "
 18073 lichen
 18074 "
 18075 " outree trunks
 18076 moss on soil.
 18077 " dry banks
 18078 lichen
 18079 Psychotria
 18080 camp.
 18081 Lipidium
 18082 Viburnum

S 8-12' pet w. ant. y.

H. lrg. scan. t fr. o.

S 5-8' pet p. sta. y.

S 1-3'

F

T 30-50'

H. tr. o.

W. U. br. q. ting with pur.

H. U. cor. tube q. lobes deep y. to par.

H. U. fil. + sty. pale y. prox. pet. x. prox. r. dist. r. stripe in center out.

H. U. spreading. pet. y.

S 1-2 1/2' pet. y.

H 2-4' pet. y.

S 3-5' br. q. cor. tube pale q.

S 3-5' br. q. becoming r.

F. br. y. becoming pur.

W. U.

on rocks

on soil

shaded banks

"

"

earth banks

"

dry banks

"

outree trunks

on soil.

dry banks

"

T 9-12'

T 20-25' br. q. cor. tube q.

H. decumb.

S 8-10' calq. pet. w. fil. w.

S

Jan. 24/33 edge of woods above La Paja 2900-3400

open hillside
 prox. pet. x. prox. r. dist. r. stripe in center out.
 ant. br. or grey.

(edible)

oak forest above La Paja 3400-3600

- 18083 *Lacistema* T. 20-30'
 18084 *Cibotium* F. caud. subter. F. 1/4' fr. (incl. st.) up to 3'
 18085 *Phorodendron* E. 5'
 18086 *caup.* S. 9-12' l.r. g. pap. w. cor. tube y. g. lobes y.
 18087 *Thibaudia* S. 9-12' cal. whitish r. cor. r.
 18088 *Polemonium* S. 8-15' cal. g. cor. tube + lobes pur.
 18089 *caup.* S. 8-10' l.r. deep. g. to pur. rays pur. cor. tube
 18090 *Solanum* H. V. pet. w. ant. y.
 18091 *Peperomia* H. terr.
 18092 *Arenaria* H. 800.
 18093 *grass* H.
 18094 *"* H.
 18095 *Cibotium* H. caud. erect 4-5' 1/2" diam. fr. (incl. st.) 3 1/2-5'
 18096 *Sium* H. cal. g. ting. with pur. pet. w.
 18097 *Polypodium* F.
 18098 *Oxalis* H. pet. y, striped with r.
 18099 *Branelia* H. bracts o. cor. pur.
 18100 *Pasiflora* U. no. fl.
 18101 *caup.* H. l.r. g. rays pale y. cor. tube pale y, lobes deeper
 18102 *Polypodium* F. Massing
 18103 *Centropogon* W. V. cor. l.r. r.
 18104 *caup.* H. 2-3' l.r. g. ting. with pur. rays pur. cor. tube g. y, lobes y.
 18105 *grass.* T. slender, 1.5-30' trunk sep. o. y. g. ting. at apex especially out. pet. o. y, deeper stripe in center out. anthers grey & branched.
 18106 *Bauhinia* H. V. l.r. (g) + pet. (g) l. y, ting. with r.
 18107 *Begonia*
 18108 *lichen*
 18109 *moss*
 18110 *"*
 18111 *Anthurium* H. terr. on dry soil
 18112 *Tropaeolum* H. V. cor. spur r, lips g. on dry stumps
 18113 *(lab.)* H. 800. pet. b. decayed log.
 18114 *Sellaginella silvestris* Asplund F. marshy soil
 18115 *Sumnera* H. coarse up to 4' det. Somers 1978

Jan. 24th oak forest above La Bja. 3400
3500

w. lobes pur. pap. w. ant. y.

deeper

cor. tube g. y, lobes y.

especially out. pet. o. y, deeper stripe in center out. anthers grey & branched.

24 along streams vic. Calif. 2000'
woods along stream, above 2900-3000
La Bja.

stream bed

18116	Cardamine	H.	cal. g. pet. w.
18117	Solanum	S. $\pm 6'$	ant. y. pet. w. Y ant. y.
18118	Polypodium	F. ^{turning up} tree trunk	
18119	Piper	S. 3-4'	
18120	Peperomea	E. H.	
18121	"	E. H.	
18122	orchid	H. terr.	br. r. tube 3 sep. p. 3 inner sep. (?) w. ting. with p.
18123	lichen	on trees	
18124	Polycourea	S. slender 6-8'	fr. c.
18125	Piper	T. 12-25'	
18126	Hydrocotyle	H.	
18127	Psittacanthus	E. S.	
18128	Lycopodium	F.	
18129	Milium	W. V.	cal. g. br. g. has sep. deep p. out pale in. q. ting. at apex. pet. y. prox. q. dist. few spot. (thicket)
18130	Bauera	H. V.	near apex in. with p. cor. tube + lobes pale
18131	Mimulus	H. ^{pro. ar.} moist soil. 3-4' bran.	faintly r. spotted in cf. g. woods along str.
18132	Solanum	H. ^{clong} 3-4' bran.	pet. w. ant. y.
18133	Eupatorium	H. ^{coarct} $\pm 4'$	br. pur. to q. pap. q. cor. tube g. y. lobes dm.
18134	comp.	H.	br. g. cor. tube g. y. lobes y. rays y.
18135	Polypodium	F.	
18136	"	F. 4-5'	
18137	Mammia	S. 4-5'	pet. deep. l.
18138	Viola	H. V.	sep. g. pet. w. striped with pur. in.
18139	geranium	H.	sep. g. pet. rich p.
18140	Amorimia	H.	pet. b. ter. b.
18141	orchid	H. terr.	br. g. cor. br. r.
18142	Centropogon	W. V.	
18143	Polypodium	F.	
18144	Salvia	H. 2-3' ^{turning up} ^{cor. br. r.}	
18145	Siparuna	S. 3-4' ^{droop.} bran.	
18146	Passiflora	H. V.	
18147	Adiantum	F.	Corolla y. sep. g.
18148	Galium	H.	

Jan. 24 wood along stream, above La Baja.

2900-3000

wooded valley

woods along str.

thicket
open hillside

thickets

open hillside

Jan. 25. open hillside, valley of Rio de la Baja

3000-3200

18149	comp.	H.	br. q. cor. tube q. y.
18150	Vallea	S. 3-5' bran. droop.	sup. + pet. p. ant. br.
18151	Baueria	H. V.	br. q.
18152	Eryngium	H.	
18153	"loto"	T. 12-15' trunk ± 2" diam. with 4	
18154	"arrayaos"	T. 40-60'	cal. q. pet. w. q. ting. out. fil. w. ant. x. w. tube q. y. sep. y. one ting. with br. pet. l. r. b.
18155	orchid	H. terr.	fr. q.
18156	Mammia	S. 2-3'	fr. q.
18157	orchid	H. terr.	fr. q.
18158	Passiflora	H. V.	no fl.
18159	Oxalis "accedera"	H.	sep. q. ting. with y. pet. y. striped with r. br. q. cor. tube q. w. lobes w.
18160	comp.	H.	sep. y. w.
18161	orchid	E. H.	
18162	Barbieria	S. 3-4' bran. droop.	sep. + pet. br. o. fr. purplish
18163	comp.	S. 3-4' bran. droop.	br. q. sep. q. w. cor. tube q. w.
18164	Hymenophyllum	F. base of tree trunks	
18165	Hemiphaea	S. 6-8'	cor. tube pale pur. lobes br. pur. cal. q.
18166	Myrsine	T. 25-35'	fr. q. becoming r.
18167	Psychotria	T. 16-20'	cal. q. y. cor. tube q. y. be- coming deeper dist. t
18168	Lycopodium	F.	
18169	moss.	on trees	
18170	hepatic	" "	
18171	lichen	on rocks.	
18172	hepatic	on trees.	
18173	Melastoma	S. 6-10'	pet. deep. r.
18174	Colum	S. 6-8'	fr. black.
18175	Asplenium	F.	
18176	Centropogon	H. V.	cor. br. r.
18177	Baueria	H. V.	sep. + pet. br. r.
18178	Begonia	S. ± 1'	pet. w. p. ting.
18179	Polylepis	S. 5-15' with slender central stem	sep. q. pet. w.
18180	Mucuna	S. compact 3-8'	cal. q. w. pet. w.
18181	Rumex	H.	sep. q. y. style q.

Jan. 25 24 open hillside, valley of Rio de La Baja

3000-
3200

sep. (?) br. out.
br. w. w. (wood useful)

oak forest, western slopes of Paramo de las Puente

3300-
3400

fr. dark q.

fil. pale y. ant. grey, deeper dist. fr. q.
at lobes. sty. q. becoming y. dist.

Paramillo, Paramo de las Puente

3500-
3700

- 18182 *Eupatorium* S. 3-5' br. q. cor. tube w, be-
conjug. p. lobes rich p.
18183 *Calceolaria* S. 1-2½' pet. y.
18184 *Eupatorium* H. compact, br. q. becoming fur.
slimely, ± 1½' tube q, lobes b. sty. b.
18185 *Vaccinium* S. 1-3' cor. w.
18186 *Melastom* S. 6-8' compact. cal. q. pet. w.
18187 *Hypericum* S. round crowned
2-5' pet. y.
18188 *Areosa* S. 5-6' sep. q.
18189 (melast.) S. 3-5' pet rich p.
18190 comp. H. erect. br. q. cor. tube pale q.
lobes b. sty. blue
18191 *Jamesonia* F.
18192 *Eupatorium* H. S. 2-4' br. q. cor. tube q. becoming
deep dist. lobes b.
18193 *Veronica* T. 12-15'
18194 *Acrograme* F.
18195 *Clusia* T. 15-20' br. q. twig. with r.
18196 *Asplenium* F.
18197 " F.
18198 " F.
18199 *Hypericum* T. 10-12' pet. y.
18200 *Alonsoa* H. sep. q. lobes l.r.o.
18201 *Aletrisella* H. ant. y.
18202 *Rubus* W. U. pet. p.
18203 *Jamesonia "dreadilla"* F.
18204 comp. S. 8-12' br. q. y. tube q. y.
lobes y.
S. 1-3' pet. y.
18205 *Hypericum* H. rays y. tube q.
18206 *Epilobium* S. 6-10' br. y. q. tube y. q.
lobes & sty. y. q.
18207 comp. S. low br. q. to pink. sep. q. w.
18208 " F.
18209 *Lycopodium* W. U.
18210 *Passiflora* W. U. cor. l.r.o.
18211 *Fuchsia* H. br. q. rays y. tube y. q.
lobes y.
18212 comp. S. ? cal. q. prox. c. dist.
18213 *Befaria* S. ? pet. rich p. ant. y.
18214 *Melast.* S. ± 1' pet. y.

Jan. 25. Paramillo, Paramo de las Puente

Paramo de las Puente
edge of.3600-
37003500-
3700

Paramo

edge

Paramo

edge

Paramo
edge

18248	grass.	H.	
18249	Bursera	T. 12-15'	fr. g.
18250	comp.	T. 15-20'	fr. g. - pin. rays p. tube deep. g. - pin.
18251	Synopteris	F.	
18252	Loriana	F.	
18253	comp.	H.	br. pale g. tube g. y. lobes y.
18254	Arenaria	H. pro.	cal. g.
18255	Viola	H. pro.	
18256	comp.	H.	br. deep g. rays y. striped out with pur. tube g. lobes y.
18257	moss	on soil	
18258	lichen	on rocks.	
18259	orchid	E. H.	sep. y. w. greenish prox.
18260	Elaphoglossum	F. crev. of rock	
18261	"	"	
18262	Solanum	S. ± 1'	pet. w. ant. y.
18263	Elaphoglossum	F.	
18264	Vaccinium	S. 4-8'	cor. w.
18265	(moss?)	S. 2-6'	pet. p.
18266	Valeriana	W. V.	pet. g. cal. w. cal. g. pet. w.
18267	Quercus "roble"	T. 30-60'	
18268	Cestilleja	S. 1-3'	br. (2) g. prox. then r. y. ant. same all r.
18269	Brousselia	H. sp.	br. o.
18270	moss	H. V.	
18271	moss	decayed wood	
18272	lichen	on soil	
18273	"	on logs	
18274	"	"	
18275	Polypodium	F.	
18276	Cypripedium	H. low. semi-pro.	cal. g. cor. tube g. lobes rich p.
18277	Peperomia	H.	
18278	Hypoxis	H.	cal. y. g. pet. c. y. std. y.
18279		H.	cal. y. g. pet. y. g.
18280	Sellaginella	F. moist soil.	

Jan. 25. Paramullo, Par de la
Puentes

3500-
3700

Oaks forest, ^{western} northern slopes
Par de las Puertes

3300-
3400

clearing,
Oak forest,

Jan. 26 wood banks of Rio de la Baja,
below La Baja

2200-
2300

18281	Psychotria	S. 5-7' few-branched	cal. g. cor. tube w, greenish prox. lobes pure w.
18282	Bocconia	T. 12-20'	
18283	Piper	S. 5-8'	
18284	Pilea	H. succ.	
18285	Centropogon	U. U.	cor. br. r.
18286	grass	H.	
18287	Commelina	H. bran semi-	sep. g. pet. w.
18288	Eupatorium	S. 4-5' few-bran	br. g. long with pur. cor. tube, lobes, sty. w.
18289	Palicourea	H. V	fr. g.
18290	comp.	H. U.	br. pale g. sep. y. g.
18291		T. 9-12'	fr. o.
18292	Luasa	H. V. + woody	sep. g. pet. w. fil. w. ant. o. y.
18293		U. U.	
18294	Isyoptenis	F. 3 1/2-5'	fr. (incl st.)
18295	Clusia	T. 25-30'	
18296	Solanaceae?	T. slender	
18297	(isopt.) Isyoptenis	F. 8-10'	
18298	comp.	H.	br. g. cor. tube g. y. ray. y.
18299	Begonia	S.	sep. w. ant. y.
18300	Pichramnia	S. 6-8'	cal. g. pet. deep. r. fr. r.
18301	Antennaria	H. terr.	
18302	grass	H.	
18303	Elaphoglossum	F.	
18304	comp.	S. 5-8'	cor. tube g. y. lobes sty. y.
18305	Epideudora	H.	tube pur. 5 sep. p. ant. y. w. at center
18306	moss	on rocks	
18307	hepatic	moist soil	
18308	"	"	
18309	algae	running water	
18310	Arenaria	H.	cal (2) g. ovary (2) g.
18311	hepatic	moist soil	
18312	moss	"	
18313	"	"	banks.

Jan. 26 wooded banks of R. de la B.
below La Paja

2200-1
2300

*u

*u

3

- 18314 *Piper* S. 6-10'
- 18315 ~~*Passiflora*~~ *Jatuna* ~~H. V.~~ S. or small fl. cal. g. cor. w. sta. w.
- 18316 *Phenax* S. 8-10'
- 18317 *Vernonia* U. V. br. long. tube g. lobes + sty. b. pet. + ant. y.
- 18318 *Solanum* U. V.
- 18319 *Urtica* H. V.
- 18320 *Passiflora* H. V. 7 cm. l. 11 cm. largest tube g. sep. w. g. tube g. pet.
- 18321 orchid H. terr. inter sep. pale g. with reddish base out. with reddish line pet. pale p.
- 18322 *Saurauja* S. 8-10'
- 18323 *Rubus* U. V. cal. g. cor. tube g. w. lobes w. fr. g. spp. homocyl. pet. w.
- 18324 *Valeriana* W. V.
- 18325 *Seyouia* W. V.
- 18326 *Lisocorea* U. V.
- 18327 *Psychotria* S. 6-10' fr. black.
- 18328 *Peperomea* H. ep.
- 18329 *Lycopodium* F. on banks.
- 18330 *Rub.* T. 12-15' stem erect, bran. near top.
- 18331 *Lichen* on decaying wood
- 18332 *Eupatorium* S. 10-12' pap. y. w. br. + sep. r.
- 18333 orchid H. terr.
- 18334 *Gutierrezia* H. terr.
- 18335 *Lycopodium* F.
- 18336 " F.
- 18337 *Psychotria* S. 8-10' fr. black.
- 18338 *Freisia* U. V.
- 18339 *Begonia* S. bran. elong. pet. w. ant. y. to 6' cal. pale g. pet. w. ant. w.
- 18340 (melast.) S. 6-10' slender,
- 18341 S. 5-7' fr. g. cor. sep. g. pet. pale y. cal. g. long. tube g. lobes w.
- 18342 *Palicourea* S.
- 18343 *Buddleia* T. 10-15'
- 18344 *Duranta* H. H. T. 12-20' grand droop cal. g. cor. tube g. lobes w.
- 18345 *Asclep.* H. V.
- 18346 *Gutierrezia* H. terr. spathe pale g.

Jan 26 Ucheto, valley of R. de La B. ± 2800
 anal. prox. cor. sometimes y. "borrachero"

circum.

hairs out, especially at base. upper sep. pet. w. greenish at center out + gr. glabrous stripe at center in. pet. pure w. fil. y. w. ant. y.

dense forest above La Baja

2500-300.

fr. pur.

Anth. coripetense N.E. Br. det. T. Croat 1990

- 18347 *Hypoxis* S. 5-8' pet. y.
 18348 *Selaginella* For. moist soil.
 18349 *Gesner.* S. 8-12' bracts g.w.
 18350 *Phenax* S. 6-10' br. elong.
 18351 *Lyoplenis* F.
 18352 *Asplenium* F.
 18353 *Pilea* H. succ.
 18354 *Peperomia* H.
 18355 *Begonia* S. pet. w. ant. y.
 18356 *Eupatorium* T. 20-25' stem erect, br. g. pap. g.w.
 18357 *Selaginella silvestris* E. plund det. Somers 1978 no fl.
 18358 *Passiflora* H. V.
 18359 "Cucharo negro" T. 15-20' br. g. ting. with r.
 18360 moss moist soil
 18361 hepatic " "
 18362 fungus " "
 18363 hepatic " "
 18364 *Orchid* H. ?
 18365 *Antium* H.
 18366 *Hydrangea* U. V. to tree tr. ster. fl. pet. p. ant pur.
 18367 *comp.* S. elong. fert. fl. pet. + fil red, br. g. rays. w. cor. tube
 18368 *Vaccinium* S. 1-2' y. g. lobes, cal. g. cor. w. br. g.
 18369 *Antium* H. spathe g.
 18370 *Thibaudia* S. 6-10' cal. r. paler dist. cor. sty. f. ant. brown
 18371 *Smilax* U. V. fr. g.
 18372 *Ranunculus* H. V. mainly sep. pet. ant. y.
 18373 hepatic moist soil
 18374 *Gaiodendron* T. small, 10-15' flowering cal. g. cor. tube + lobes y. w.
 18375 *Juncus* T. bran. erect at summit fil. w. ant. y. fr. r. 27 scrubby slopes of Jarano de las
 18376 *Quaria* H. 2-4' woody br. g. rays. tube y. Coloradas
 18377 *Bouena* T. 15-20' stem erect, flowers cor. lobes y.
 18378 *Protea?* H. V. closely turning
 18379 *Phorodendron* U. V. around bran. of oak. fr. w.

Jan. 26 dense forest above La Baja

2800-3000

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18408

18409

18410

18411

18412

18413

18414

3000-3500

27 scrubby slopes of Jarano de las Coloradas

y. in pet. y. g. dist. pur. spotted in near apex

3

- 18380 *Hypericum* S 2-3' pet. y.
 18381 *Monarda* S 4-5' pet. deep b.
 18382 comp. H 2-2½' br. q. w. cor. tube + lobes q. w.
 18383 *Vaccinium* S 3-6' cor. w. p. ting. br. q.
 18384 *Brunellia*?? T 50-60' fr. n.
 18385 orchid H. terr.
 18386 *Paspalum* H.
 18387 orchid E. H.
 18388 *Erodium* H.
 18389 *Miconia* S 12-15' pet. w.
 18390 (eric ?) T 12-15' cal. q. ting. with deep r. fil. p. ant. y.
 18391 *Aragoa* S 1-2' cal. q. pet. w.
 18392 *Wittmannia* T 25-35'
 18393 *Eupatorium* S 1-3' br. q. cor. tube q. prox. fur. dist. lobes w. to p.
 18394 lichen on tree trunk
 18395 grass "etamo real" H. (termed used by old people)
 18396 *Eupatorium* S 6-10' br. q. cor. tube q. lobes fin.
 18397 *Cassia* S or small T. 10-15' pet. br. y.
 18398 *Passiflora suberosa* H. V.
 18399 *Galium* H. pro. ← 1/2 fr. q. w. br. dark q. rays w. tubex. q. cor. lobes y.
 18400 comp. H.
 18401 " H.
 18402 comp. H. br. q. ting with pur. rays w. cor. tube y. q. lobes y.
 18403 (indist) S 1-1½' pet. p. ant. y.
 18404 *Hypericum* S ½-1½' pet. y.
 18405 Comp. ? S ±1'
 18406 *Carex* H.
 18407 grass H. pres. pet. pale p.
 18408 *Elaphoglossum* F.
 18409 *Alchemilla* H.
 18410 grass H.
 18411 *Alchemilla* H.
 18412 *Alchemilla* H.

Jan. 27. scrubby slopes of Par. de las Coloradas

3000-
3500

Paramillo, Par. de las Coloradas

3800

3700-
3900

g-6

pet. rich p. paler prox.

28 clearing vic. La Baja

2600-
2700

thickets

27. Paramo de las Coloradas

2300

3900-
4100

- 18446 *Jamesonia*
 18447 *Galium*
 18448 grass
 18449 *Erythroxylum*
 18450 *Eupatorium*
 18451 grass
 18452 *Calceolaria*
 18453 *Gaultheria*
 18454 *Lycopodium*
 18455 "
 18456 *Werneria*
 18457 camp.
 18458 grass.
 18459 (lob.)
 18460 camp.
 18461 grass
 18462 camp.
 18463 *Loruaia*
 18464 *Miconia*
 18465 *Lycopodium*
 18466 "
 18467 *Melast.*
 18468 *Vaccinium*
 18469 "
 18470 *Polylepis*
 18471 *Rhizactis*
 18472 lichen
 18473 *Rhizactis* "
 18474 hepatic
 18475 *Peperomia*
 18476 *Polypodium*
 18477 *Polylepis*
 18478 *Chusquea*

- F.
 H. ~~pet. w.~~ ting. with r.
 H.
 H.
 S. $\pm 1'$ br. q. cor. tube pale q.
 lobes p.
 H.
 S. 2-5' pet. y.
 S. 1-2'
 F.
 F.
 H. ray w.
 S. $\pm 6''$ semi-proc. sep. greyish
 H.
 H.
 S. $\pm 6''$ br. q. cor. tube pale q.
 lobes w.
 H.
 S. 2-6' br. q. cor. tube y. q.
 lobes y.
 F.
 S. 6-15' round, pet. w.
 S. compact, cream
 F. in crev. of rock
 H. sep. q. cor. spur. w.
 lobes q. w.
 S. $\pm 1'$ pet. y.
 S. $\pm 1'$ fr. blue
 S. 1-2' fr. reddish
 T. 15-20'
 H.
 on rocks
 moist soil
 "
 "
 E. H.
 F. sp.
 W. U. pet. w. sep. q.
 F.

Jan. 27 Paramo de las Coloradas

3900-
4100

2

Paramullo, Par. de las Coloradas

3700-
3900

- 18479 grass.
 18480 orchid
 18481 lichen
 18482 moss
 18483 *Juncus*
 18484 *comp.*
 18485 *Viola*
 18486 *Viola*
 18487 grass
 18488 *Polypodium*
 18489 "
 18490 *Solanum*
 18491 *Epidendrum*
 18492 *Boueria*
 18493 *Calceolaria*
 18494 *Solanum*
 18495 *Asplenium dissectum*
 18496 (lob.)
 18497 *Bromelia*
 18498 *Elaphoglossum*
 18499 orchid
 + 18500 *Stemodia*
 18501 *Passiflora*
 18502 (leg.) *Vicia*
 18503 *Lupinus*
 18504 orchid
 18505 orchid
 18506 *Odontosora*
 18507 *Asplenium*
 18508 lichen
 18509 *Asplenium*
 18510 *Polypodium*
 18511 "
- H.
 H. terr. fr. g.
 on tree trunks
 on decaying wood
 H.
 H. br. g. per. ting. sep. w.
 H. col. tube g. y. lobes y.
 H. pros. sep. g.
 H. moist
 H. soil
 H. bran. drooping,
 semi-prod.
 F. crev. of rock
 F. "
 H. bran. pros. & elong. pet. w. ant. y.
 H. to 3-4'
 H. terr. 5 sep. yellowish, p. ting
 tube rich p.
 sep. y. g. ting. at apex out.
 H. U. pur. spot. in
 H. 2-4' pet. y.
 H. 2-4' woody
 below.
 F.
 H. cal. g. ting. with pur. pet. deep.
 H. blue, blackish, ant. y.
 F. rocky banks
 H. " " fr. g.
 F. long 1' l. horizontal
 to 1' thick.
 H. U.
 H. U. pet. blue.
 H. cal. g. feel l. y. stripe in center.
 H. wings b. stain g. w.
 tube g. sep. y.
 H. 3-5' tube g. sep. y.
 F.
 F.
 rocky soil
 F. crev. of rock
 F. "

Jan. 27. Paramillo, Par. de las
 Coloradas

3700
 3900

scrubby slopes of Par. de
 las Coloradas

2000-
 3500

clearing vic California
 30 ~~thicket~~ borders of stream "

2000-
 2100

29' thickets along Rio de la Baja,
 above La Baja
 rocky open hillsides, southern
 slope of Paramo de Roversal

± 3000m

3000-
 3300

2-15

3300-
 3800

Paramillo, Par. de Roversal

3800-
 4100

- 18512 *Peperomia*
 18513 *Hydrocotyle*
 18514 *Calceolaria*
 18515 *Castilleja*
 18516 *Asplenium*
 18517 *Elaphoglossum*
 18518 *Polypodium*
 18519 *Hydrocotyle*
 18520 sedge
 18521 *Salvia*
 18522 *Oreobates*
 18523 *Cestrum*
 18524 *Eupatorium*
 18525 *Alchemilla*
 18526 *Eupatorium*
 18527 *Chilanthus*
 18528 *Carex*
 18529 *Acaena*
 18530 *Phoradendron*
 18531 *Cardamine*
 18532 (lob.)
 18533 *Miconia*
 18534 camp.
 18535 *Smilax*
 18536 ?
 18537 *Melastoma*
 18538 geranium
 18539 *Alchemilla*
 18540 *Botrychium*
 18541 (rubel.)
 18542 camp.
 18543 grass
 18544 (leg)

- H.
 #. pro.
 S 2-6' pet. y
 H.
 F.
 F. over of rock
 F.
 H.
 H.
 H. bran semi-
 H. #. 1' sep. g. p. ting. pet. p.
 S 2-8' cal. y. cor. tube g. pro.
 S 1-3' pink. duct. lobes y.
 lobes bluish w. sty. w.
 H.
 H. woody below long. tube y. g.
 lobes w.
 F.
 H.
 H.
 E. S.
 H. pet. w.
 H.
 S. 3-10' compact pet. w.
 crown
 S. 3-5' long. to pur. cor. tube
 gnath. lobes & sty. w.
 H. fr. g. becoming darker
 H. pro.
 S. 8-12' pet. deep. r.
 H. pet. p.
 H.
 F.
 H. 2-5'
 H. fr. g. tube y. g.
 lobes y.
 H.
 H. v. pet. deep. b.

Jan. 29 Paramillo, Par. de Roraima

3800-
4100

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fr. black

h-3

~~Phy~~

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|-------|-------------------------|---------------------------------------|--|
| 18545 | <i>Hypocrepis</i> | H. woody | pet. y. |
| 18546 | <i>Halenia</i> | H. | cal. g. cor. g. w. |
| 18547 | <i>Diplostegium</i> | H. Low scrubby shrub | pet. w. |
| 18548 | (det.) <i>Cardamine</i> | H. | |
| 18549 | <i>Galium</i> | H. bran. frs. | |
| 18550 | <i>Asplenium</i> | F. | |
| 18551 | <i>Fycopodium</i> | F. | |
| 18552 | grass | H. | |
| 18553 | <i>Plantago</i> | H. | |
| 18554 | crup. | H. | |
| 18555 | <i>Barbarea</i> | S. or small T. sep. + pet. length 0.5 | |
| 18556 | <i>Galium</i> | H. U. | |
| 18557 | <i>Bidens</i> | H. | pet. y. |
| 18558 | grass | H. | |
| 18559 | <i>Hypocrepis</i> | S. 4-5' | pet. y. |
| 18560 | grass | H. | |
| 18561 | crup. | S. 4-10' | br. g. cor. tube y. g. lobes y. |
| 18562 | <i>Vaccinium</i> | S. 6-9' | cor. w. |
| 18563 | <i>Arenaria</i> | H. | |
| 18564 | <i>Eupatorium</i> | H. | br. g. cor. tube pale g. sty. + lobes b. |
| 18565 | <i>Melast</i> | H. woody | pet. y. |
| 18566 | <i>Cardamine</i> | H. | pet. w. |
| 18567 | (melast.) | S. 3-7' erect. | pet. p. |
| 18568 | <i>Halenia</i> | H. | cor. + sep. g. |
| 18569 | orchid | H. ep | sep. pale g. |
| 18570 | <i>Elaphoglossum</i> | F. | |
| 18571 | <i>Plantago</i> | H. | |
| 18572 | (scroph) | S. 2-6' | pet. w. |
| 18573 | crup. | S. 4-6' | br. g. to pur. rays p. w. at edges |
| 18574 | <i>Arctophyllum</i> | S. 2-4' | cor. tube w. |
| 18575 | <i>Asplenium</i> | F. | |
| 18576 | <i>Polypodium</i> | S. 2-4' | |
| 18577 | <i>Fuchsia</i> | S. 3-8' bray. droop. | cor. br. r. |

Jan. 29 Paramillo, Par. de Romeral

3800-4100

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| 18545 | 64581 |
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| 18576 | 64581 |
| 18577 | 64581 |

18578	<i>Acaena</i>	H.	
18579	?	H.	
18580	<i>Hypnaceum</i>	S. $\pm 2'$	pet. y.
18581	<i>Castilleja</i>	H. $\pm 1'$	br. r. ting. with g.
18582	comp.	H. 2-3'	br. g. pappus greyish w.
18583	moss	on decaying wood	
18584	<i>Gentiana sidiyohai</i>	H.	cor. y. w.
18585	moss	moist soil	
18586	"	"	
18587	lichen	rocky soil	
18588	moss	decaying wood	
18589	fungus	"	
18590	lichen	on rocks	
18591	"	moist soil	
18592	"	"	
18593	"	on rocks	
18594	"	"	
18595	"	"	
18596	"	"	
18597	hepatic	moist soil	
18598	"	"	
18599	<i>Passiflora</i>	H. V.	no fl.
18600	comp.	S. $\pm 1'$	br. g. pur. ting. pap. w.
18601	<i>Vaccinium</i>	S. 1-2'	cor. w.
18602	comp.	S. $\pm 1'$	pap. w.
18603	<i>Bauena</i>	H. V.	sp. r. ant. c. in. pet. y. r. streak in center out fil. f.
18604	comp.	S. 3-5'	br. g. pur. spot. in. ant. f.
18605	comp.	S. 2-6'	br. g. lobes y. cor. tube y. g. lobes y. tube y. g.
18606	<i>Thibaudia</i>	S. 8-10'	cor. br. r.
18607	<i>Elephantopus</i>	F. on boulders	
18608	<i>Polypodium</i>	F. " "	
18609	<i>Raietia chelus</i>	H.	pet. y.
18610	<i>Viola</i>	H. V. pro.	

Jan. 29. Paramillo, Par. de Romeral

3800-
4100

18611	Louania	F.	
18612	Roxypterus	F.	
18613	"	F.	
18614	Hymenophyllum	F.	
18615	moos		on decaying wood
18616	"		moist soil.
18617	Jamesonia	F.	
18618	comp.	S. 1-3'	br. q. pap. w.
18619	Espeletia	H.	
18620	orchid	H. terr.	tube g. to y. dist. sep. y.
18621	"Jopuldia"	H.	br. (2) g. y.
18622	comp.	H.	br. q. - pur. ting. ray. fur.
18623	Castilleja	H.	cor. tube y. g. lobes y.
18624	Espeletia	H.	
18625	Tycopodium	F.	
18626	Hypericum	S. 2-4'	pet. y.
18627	Juncus	H.	
18628	comp.	S. 1'	br. q. - pur. ting. pap. w.
18629	Castilleja	H.	br. r.
18630	Bartsia	H.	pet. fur, pale pur.
18631	Hypericum	H.	
18632	Vaccinium	S. ± 1'	br. r.
18633	Bernettia	S. 6"-1'	fr. fur, ting with w.
18634	comp.	S. 1-2'	ray. w.
18635	Espeletia	H.	
18636	Vaccinium	H.	cor. rich p.
18637	grass	H. stem	woody
18638	comp.	H.	ray. w.
18639	Bartsia	H.	cal. (3) g. pur. ting.
18640	Eryngium	H.	pet. (3) p.
18641	Melast.	H.	pet. + st. w.
18642	Alchemilla	H.	
18643	comp.	H.	ray. w. cor. tube pale y. lobes y.

Jan. ³⁰/₂₉ Paramillo, Par. de Rómeral 3800-4100' 11381

Paramo de Rómeral
(dept. Norte del Santander)

3800-4200'

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Platanus with

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18644	<i>Heliconia</i>	H.	sep. g. cor. w. ting. with g.
18645	<i>Castilleja</i>	S. II'	br. (?) r.
18646	<i>Gentiana</i>	H.	cor. pet. w. streaked with pur.
18647	comp.	H.	
18648	geranium	H.	pet. p.
18649	grass	H.	
18650	comp.	H.	rays w. ting. with blue cor. tube g. y. lobes y.
18651	<i>Plantago</i>	H.	
18652	<i>Gentiana</i>	H.	cal. & pet. g. cal. & cor. g. br. g. to pur.
18653	comp.	H.	
18654	<i>Plantago</i>	H.	
18655	<i>Eupatorium</i>	S. 1-3'	cor. tube w. lobes pur. sty. w.
18656	<i>Ureina mauna</i>	small l.	pet. g. w.
18657	<i>Sipogynelium</i>	H.	pet. y.
18658	<i>Jamesonia</i>	F.	
18659	<i>Stachys</i>	H.	cal. deep pur. cor. tube + lobes deep blue
18660	comp.	S. 3-5'	cor. tube g. y. lobes y.
18661	<i>Phyllactis</i>	H.	cor. tube g. w. lobes w.
18662	<i>Lycopodium</i>	F.	
18663	comp.	H.	br. g. cor. tube y. w. lobes + sty. w.
18664	comp.	H.	br. g. cor. tube pale g. lobes blue
18665	<i>Heliconia</i>	H.	sep. g. cor. g. pur. w. cor. tube + lobes g. w.
18666	comp.	H.	ray y. cor. tube g. y. lobes y.
18667	<i>Motholacua</i>	F.	
18668	comp.	H.	br. g. edged with pur. rays rich p. or w.
18669	<i>Bauhinia</i>	H. U.	sep. g. o. in prox. pet. o. r. fil. slt. pale y.
18670	"	H. U.	sep. o. r. ting. out, greenish in center out, pur.
18671	<i>Claphoglossum</i>	F.	
18672	"	F.	
18673	"	F.	
18674	<i>Lycopodium</i>	F.	
18675	"	F.	
18676	grass.	H.	

Jan. 38 Paramo de Raverol
(Santander del Norte)

3800-
4200

cor. tube pale g. lobes y. ting at apex with r. stripe in center out and brown pur. at apex out. pet. o. r. ting. dist. with r. stripe spotted w. ant. green, fil. pale y.

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- 18677 *Orobatus* S. 1-3' lyan. sep. deep. r. pet. rich p.
 18678 *Odontosoria* F.
 18679 grass H. Stem + woody
 18680 *Oreopanax* T. 10-12' equ erect.
 18681 *Sphacela* S. 2-3'
 18682 *Lycopodium* F.
 18683 *Camp.* S. 1-2½' cor. tube y. q. lobes y.
 18684 *Gaultheria* S. 4-6' cal. q. pet. w. ant. x. sty. w.
 18685 *Vaccinium* S. 11' ex. br. r.
 18686 *Orchid* H. Terr.
 18687 *Oreopanax* T. 15-20'
 18688 *Halenia* H. sep. q. ex. q. spars w. q. trip.
 18689 *Bromelia* H.
 18690 *Arenaria* H. pro. sep. q. pet. w.
 18691 (lab.) H. cor. tube rich p. pet. rich p.
 18692 *Ribes* H. w. in. prok.
 18693 *Umb.* H. S. 3-5
 18694 (leg) *Lupinus* H. keel. per. at edge w. at center
 18695 *Camp.* S. 1-2 5-9 ft. w. prox. stan. w. prox. deep. per. dist.
 18696 grass. H.
 18697 lichen on rocks
 18698 moss moist soil
 18699 *Funigus* " banks
 18700 *Lichen* on rocks
 18701 *orchid* H. ep. sep. pale y. q. br. q.
 18702 *Lycopodium* F.
 18703 *Elaphoglossum* F.
 18704 *Lycopodium* F.
 18705 *Polypodium* F.
 18706 " F.
 18707 *hepatic* moist banks
 18708 " " pet. br. b.
 18709 *Lupinus* H.

Jan. 30. Paramo de Raverat
(Sant. de Norte)

3800-
4200

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31. rocky open hillides
Paramo de Raverat
southern slope, Par. de Raverat

± 3800m.

2

± 3800
3300-
3800

- 18710 orchid
 18711 Solanum
 18712 Castilleja
 18713 comp.
 18714 (lob.)
 18715 Rubus
 18716 Hypericum
 18717 Eupatorium
 18718 "
 18719 Urtica
 18720 orchid.
 18721 (synid.) "granulata"
 18722 orchid
 18723 Peperomia
 18724 orchid
 18725 Polypodium
 18726 orchid
 18727 Escallonia
 18728 lichen
 18729 Polypodium
 18730 Solanum
 18731 "
 18732 (lab.)
 18733 geranium
 18734 Trifolium
 18735 Oenothera
 18736 Clusia
 18737 orchid
 18738 Olebunella
 18739 Polypodium
 18740 lichen
 18741 moss
 18742 "
- H. terr. tube g. sep. y.
 S. 6-10' pet. w. ant. y.
 H. 12' woody at base l.r. r.
 S. 3-4' cor. tube pale g. lobes w.
 H. l.r. g.
 U. V. pet. p.
 S. 5-7' stem pet. y.
 H. 3/4" diam. l.r. g. edged with pur. lobes & sty. b.
 H. 2-4' woody pale g. cor. tube & sty. w.
 H. at base pale g. lobes & sty. w.
 H. U.
 H. terr. fr. g.
 H. 3-6' pet. b. fr. g.
 H. terr. fr. g.
 H. ep.
 H. terr. sep. y.
 F.
 H. terr. fr. g.
 S. (?) pet. w.
 on rocks
 F.
 H. 12 can. pet. b. ant. y.
 H. 3-4' bran. pet. w. ant. y.
 H. elong. sep. g. cor. b.
 H. pro. pet. p.
 H. bran. pet. y.
 H. pro. cal. y. striped with r.
 H. 12-20' family erect 1.5" diam. pet. y. brown r.
 T. ep. sep. y. tube gray.
 H. cal. g.
 F.
 on rocks
 " "
 on wood

Jan. 31. rocky open hillside, southern
 slopes Par. de Reneral
 Paramillo, Par. de Reneral

3300-
 3800

± 3800

shaded banks, upper Rio de
 La Baja

± 3300 3

open hillside, western slopes
 of Par. de las Puente,
 vic. La Baja.

± 3300

± 3300

oak forest, ~~~~~

open hillside, ~~~~~

- 18743 lichen on rocks
 18744 *Uotholaena* F.
 18745 orchid H.
 18746 *Manning* T. 10-12' trunk slender pet. b.
 18747 grass. H.
 18748 *Iporhea* H. V. cor. w. prox, pur. dist.
 18749 *Eupatorium* H. 4-6' br. g. tube pale g. cor. lobes 4-5' p. blue
 18750 *Piperomea* H.
 18751 *Pellaea* F.
 18752 *Microthana* S. 6-10' cal. g. cor. tube g. lobes p.
 18753 *Sicranopteris* F.
 18754 *Alousoa* H.
 18755 *Melastoma* H. 1-2' pet. rich p.
 18756 *Hypericum* S. 4-6' pet. y.
 18757 comp. T. 12-15'
 18758 lichen on tree trunk
 18759 *Antennaria* H. spathe g.
 18760 *Valeriana* H. 4-6' woody sep. g. cream w.
 18761 *Antennaria* H. spathe g.
 18762 " H. spathe g. out, p. in, edges in w.
 18763 comp. H. 4-5' br. g. cor. tube g.
 18764 *Valeriana* *Phypalis* H. 4-6' woody sep. g. cor. tube lobes y. g.
 18765 orchid H. 4-6' below sep. g. cor. tube lobes w.
 18766 *Viburnum* H. 15-20' tr. sep. y. streaked with r.
 18767 *Piper* T. slender ex. pale g. pet. w. fr. black.
 18768 *Vaccinium* S. 6-10'
 18769 *Solanum* S. 4-6' bran. cal. g. becom. p.
 18770 *Vittaria* S. elong. deep cor. g. w. pale dist.
 18771 *Hymenophyllum* S. or small fl. pet. w. ant. y.
 18772 *Begonia* F. drooping
 18773 *Piperomea* *Hymenophyllum* F. on trees
 18774 *Piperomea* H. 1-2' pet. w. p. twig ant. y.
 18775 *Lycopodium* F. tree trunk
 S. 10-15' fr. g.

Jan. 31 O. L. w. slopes Par de las Puente
 Cluchets, vic. La Baya

± 3200

2600-3000

ON

dense forest along Inhabada
 de Pais

± 3200

2

probably should be
 Paey 2/19/50

- 18776 orchid
 18777 *Tropaeolum*
 18778 *Bomarea*
 18779 comp
 18780 *Polypodium*
 18781 (umbel.)
 18782 *Tillandsia*
 18783 *Asplenium salicifolium*
 18784 *Thilaudia*
 18785
 18786 *Valeriana*
 18787 comp.
 18788 *Peperomia*
 18789 *Tropaeolum*
 18790 orchid
 18791 *Thilaudia*
 18792 grass
 18793 *Bomarea*
 18794 *Thilaudia*
 18795 *Pilea*
 18796 comp.
 18797 *Pilea*
 18798 *Calceolaria*
 18799 *Calceolaria*
 18800 *Eutropogon*
 18801 *Gnaphalium*
 18802 *Cystopteris*
 18803 *Viola*
 18804 *Arenaria*
 18805 *Fragaria*
 18806 orchid
 18807 *Solanum*
 18808 *Pilea*

- H. terr. cr. r.
 H. U. cor. tube r. ting. with o. dist.
 H. U. sep. g. at tip.
 H. U. sep. r. clip. o. in. ber. pur. spots at apex in, apex out g. ting.
 H. U. pet. y. prox. g. dist. pur. - spot. in near apex. faint r. stripes in center out.
 H. U. climbing
 F.
 H. 10-12' coarse sep. g. pet. y. g. fr. g.
 H.
 F.
 S. bran. elong. cal. g. cor. red, g. dist.
 H. pet. cr. y.
 H. or. S. with
 H. U. scan. bran. pet. w.
 H. 2-3' slender. br. g. ped. g. w.
 H.
 H. U. br. g. cor. tube r. lobes - ting. - sep. g. at apex.
 H. U. pet. r. fil. pur. and. greyish green. sty. + stig. pale y.
 H. terr. fr. g.
 S. br. drooping cal. cream w. r. ting. cor. tube r. w. dist.
 S. ant. o. to brown, sty. brown.
 H.
 H. U. fl. cr. o.
 S. bran. droop. cal. r. cor. r.
 H. succ. paler in.
 S.?
 H. succ.
 H. pro.
 S. 3-6' pet. y.
 S. ? cor. cr. r.
 H.
 F.
 H. U. sep. (?) g. w.
 H. pro. pet w. ting. with b.
 H. proliferaus
 H. sp.
 S. ? pet. w.
 H.

Jan. 31 dense forest along Iuebrade

± 3200

de Pais

Jan. 31 dense forest along Iuebrade

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- 18809 *Metastema* T? pet. incl. p. to pur.
 18810 *camp.* S. pap. w.
 18811 *camp.* H. coarse br. g. pur. ting.
 18812 *camp.* S. 5-7' br. g. ch. tube q. w. lobes w.
 18813 *Touclutis* F.
 18814 *camp.* H. coarse. pap. greyish
 18815 *Momium* W. Y. pet. br. b.
 18816 *Myrsine* T. br. reddish pur.
 18817 *Asplenium* F.
 18818 *Equisetum* F.
 18819 *Clethra* T. 15-25' fr. g.
 18820 *Cestrum* S. 6-10' br. g. fr. g. droop.
 18821 *Peperomia* E. H.
 18822 *grass* H.
 18823 *Polypodium* F.
 18824 *Dryopteris* F.
 18825 *Saurauja* T. 15-20' sp. paleo. pet. w. ant. y.
 18826 *Louana* F.
 18827 *Alouwa* H. pet. w. ant. y.
 18828 *Bouena* H. V. sp. r. ant. g. ting at apex
 18829 *camp.* H. coarse r. ant. g. ting at apex
 18830 *Pilea* H. succ. y. g. lobes o. y.
 18831 *hepatic* moist soil.
 18832 *moss* on banks
 18833 *moss* " "
 18834 *Polytetium* " "
 18835 *moss* moist soil
 18836 *hepatic* decaying log
 18837 *moss* moist soil
 18838 *"* tree trunk
 18839 *"* moist soil
 18840 *hepatic* " "
 18841 *moss* " "

Jan. 31. dense forest along Iuebrada de Pais T 3208

c. y. in pur. spot near apex, pet. y. g. at apex, faint r. stripe in center out

- | | | | |
|-------|-------------------------|----------------------|--------------------------------------|
| 18842 | <i>Passiflora</i> | H.V. | |
| 18843 | <i>Begonia</i> | S 3-6', br. | Sep. wh; styles gr.-y |
| 18844 | <i>Piper</i> | S 3-4' | fr. light gr |
| 18845 | <i>Anthurium</i> | H ter | Spadix or-y; spathe gr |
| 18846 | <i>Vernonia</i> | S elong. | Corosty. rich purp. |
| 18847 | <i>Pteris</i> | H | |
| 18848 | <i>Centropogon</i> | V woody | Cor. red. |
| 18849 | <i>Pilea</i> | H succ. | Pls gr.-wh. |
| 18850 | <i>Rub.</i> | H 2-2.5' woody below | Cor. wh. |
| 18851 | <i>Salvia</i> | H diffuse | |
| 18852 | <i>Vernonia</i> | S 3-5' | cor. purple
Pappus wh. |
| 18853 | <i>Hydrocotyle</i> | S 4-6' | Calystema bright red, |
| 18854 | <i>Fuchsia</i> | S 4-6' | |
| 18855 | <i>Oreocarya</i> | Caudex subter. | stip. 2-3'; fl. 1-3' |
| 18856 | <i>Centropogon</i> | S 3-4' | Cor. rich pi. |
| 18857 | <i>Piper</i> | S 8-12' | |
| 18858 | <i>Miconia</i> | S 4-8' | Pet. wh; anther y |
| 18859 | <i>Mimulus</i> | H 4-6' | Pr. wh. |
| 18860 | <i>Rub.</i> | S 10-15' | Pr. gray-weet, |
| 18861 | <i>Eupatorium</i> | S 3-6' | Ar. gr.-w. lobes
styles purp.-pi. |
| 18862 | <i>Coccoloba</i> | H 4-6' | Fr. bright blue |
| 18863 | <i>Spermacoce</i> | H diffuse | in. wh. |
| 18864 | <i>Hep. Trichomanes</i> | On banks | |
| 18865 | <i>Hep.</i> | " " | |
| 18866 | <i>Corp.</i> | S 3-6' | Rays y, florets dark |
| 18867 | <i>Eupatorium</i> | S 3-6' | All fl. parts wh. |
| 18868 | <i>Thibaudia</i> | S 8-15' | Pr. gr. |
| 18869 | <i>Viburnum</i> | S 10-12' | Pr. black |
| 18870 | <i>Eupatorium</i> | S 5-7' | All fl. parts wh. |
| 18871 | " | S 6-8' | Cor. wh. |
| 18872 | <i>Thibaudia</i> | S | Cor. red; lobes gr. |
| 18873 | <i>Piper</i> | S 2-4' | |
| 18874 | ? | S 10-15' | |

Feb. 6. thickets vic. California
8 woods, bet. California & Chanta
8

Anthurium coriifolium N.E. det. T. Croat 1990

pappus wh.

plumy; pet. light & dull.

semitransparent
thickets, vic. Chanta
Cor. wh., lobes purplish-blue
open thickets

thickets

18875	Thibaudia	S 6-10'	Cor. pi. pure, wh. dist. o lobes
18876	Stigmaphyllon	✓ herb	Pet. or. y.
18877	Befaria	S 6-10'	Cor. rich pi.
18878	Polygala	H 1.5-2'	Pet. pi., y-g. p base
18879	Succid	S 4-8'	Cor's y.
18880	Befaria?	S 2-4'	
18881	Nicotia	S 6-10'	
18882	Therandron	S epip. on. #18881	
18883	Thibaudia	S 8-12'	Br. wh. pi. tinged Cor. white
18884	Castilleja	S 1-3'	calyx gr. pure red. dist. o lobes
18885	Epidendrum	H ter	Fr. wh. pi. tinged out app light gr., even
18886	Grass	#	
18887	Urumea	T 10-20'	Pet. gr. wh.; petals. wh. anth.
18888	Thibaudia	S 3-6'	Pr. gr. pure, app pi. dist.
18889	Stytophyllum	S 1-2'	Cor. deep pi. pure; in wh. pi. tinged out
18890	Merrill	S 4-8'	Pet. rich purple, fil wh. anth. pi.
18891	Hypericum	S 1-3'	Pet. y
18892	Shurtrofferia	H	
18893	Nyctis	H prostr.	calyx purplish Cor. pi. - blue
18894	Vaccini	S 6-8'	Cor. pi. - wh.
18895	Paepalanthus	H roots 1.5" thick heads gray-wh.	
18896	Solanum	✓ herb.	Cor. wh., anth. y
18897	?	S 5-8'	Pet. y Cor. gr. - y.
18898	Comp.	S 5-8'	Ray y
18899	Vaccini	S 3-5'	Cor. pi.
18900	Dicranopteris	H	
18901	Nicotia	S 10-15'	
18902	Theaceae	T 10-12'	Fr. gr., shining
18903	Myrsine	S 8-12'	Fr. gr.
18904	Juncus	H in clumps in swamp S 3-6'	
18905	Gauetheria	S 3-5'	Fr. wine-color
18906	Eupatorium	S 3-5'	Cor. pi. w. lobes & style wh.
18907	Piper	S 4-7'	
18908	?	S 6-10'	Fr. gr.

Feb. 8 thickets, Vic. Charta

2000 -
2100 m.open hillside
y apexedge of woods
wh. apex2100 -
2400 m.

open hillside

edge of woods

swamp

18909	Vaccinium	S 3-8'	Fr. black, lustrous
18910	Moss	Sec. logs	
18911	Cissus	H ✓	Pet. y-g.
18912	Eupatorium	S 3-5'	all fl. pt. wh
18913	Solanum	S 4-6'	Cr. w, blue-tinged
18914	Begonia	S 2-4'	Pet. wh. y
18915	Miconia	S 3-8'	
18916	Cayote Suramia	✓ herb	
18917	Cestrum	✓ woody	Cr. purple
18918	Eupatorium	S 8-12'	Cr. fr. w. lobes o styl. deep pi.
18919	Cordia	S 10-15'	Cr. sp. - wh.
18920	Piper	S 2-4'	
18921	Rub	✓ herb	Fr. pi. - red
18922	Piper	S 6-8'	
18923	Carica	T 4-8'	Fl. tube y-g.
18924	Histiopteris	H	
18925	Orthocentrus Silene	H	Per. pi. - purp.
18926	Cyathia	H	
18927	Orchid	H ✓	Seps light y, greenish at base
18928	Rubus	✓ woody	Pet. light pi.
18929	Thibaudia	S 2-3'	Cr. rich pi, lobes pi. - wh.
18930	Bromelia	H up 58'	Per. wh, greenish out
18931	Pleurothallis	H epip.	
18932	Bouarea	✓ herb	seps red-pi., y-tinged pur. in; rim y
18933	Anacardium	T 12-20' slender	Fr. red-br.
18934	Gaultheria	S 10-12'	Cr. wh.; fr. wine-w. l.
18935	Laelia	H ?	See notes
18936	Utricularia	H	Cor. y.
18937	Moss	Sandy soil	
18938	Lichen	Soil	
18939	Moss	"	
18940	"	"	
18941	Lichen	On trees	

Feb. 9 edge of woods, Vic. Charta

2100-
2400 m.

stream margin

oak forest

± 2500 m

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18942	Lecium	Soil	
18943	"	On trees?	
18944	dep.	" "	
18945	Polypodium	H ter	
18946	Peperomia	H ter	Spikes y-gr.
18947	Comp	V woody	invol. purple deep.
18948	Bromelia	H epip.	Br. bright red.
18949	Alsophila	T fern	caud. 3' 6" / fr. (incl. st.) 3' 6"
18950	Thibaudia	S 10-15'	
18951	Myrsine	S 8-12'	Ripa fr. black
18952	Gram	H	
18953	Carex	H	
18954	Moraceae	T 15-25'	
18955	Senecio	V woody	invol. gr. floret, deep y
18956	Solanum	S 2-5' br. along	Cor. wh, anthers y
18957	Castilleja	H	Br. & calyx gr, pink, scarlet
18958	Cestrum	H S 10-15'	Cor. or-y.
18959	Polypodium	H epip. on old stump	
18960	"	H epip.	
18961	Lathyrus	H 2-7' long	St. pi. - tinged; wings
18962	Dioscorea	St. pi. - tinged; wings	pub. dist, pale pink
18963	Peperomia	V herb	Per. g-w
18964	Pilea	H epip.	
18965	Salvia	H 2-3' stem	Per. gr. w.
18966	Xanthosoma	H 2-3' stem	up to 5' high
18967	Funaria	H 2-3' stem	calyx pi. cor. pi. - pur.
18968	Pilea	H 2-3' stem	white
18969	Anthurium	H 2-3' stem	white
18970	Marattia	T 20-35'	spadix g, becoming y.
18971	comp.	H. U.	st. p. w. at apex
18972	(Theaceae)	S 10-15'	cor. g. w.
18973	Laclutis	F.	
18974	Begonia	S. 2-5'	sep. g. w.

Feb. 9 Oak forest, Vic. Charta

± 2500m.

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8 clearing

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~~dense wet woods, western slopes of Mt. San Vincente~~

51081

51081

tree g-w. (clearing ??)

dense wet woods, western slopes of Mt. San Vincente

2500-2700

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19008	Peperomia	H herb.	Spikes gr. wh.
19009	Rapanea	T 15-20'	Inf. gr. wh.
19010	Isachne	V herb	
19011	Piper	S 4-5'	Spi. wh.
19012	Tournefortia	T 15-20'	Fls. & fr. wh.
19013	Isachne	V herb.	
19014	Asplenium	H ter.	
19015	Rubiaciae	H 3-6'	Cr. wh., fr. rose-red to bright red.
19016	Peperomia	H ter	Stems & under surface lvs reddish.
19017	Begonia	H 4-8' br.	Seps wh., anthers y.
19018	Centropogon	V woody	Cr. rich pi., pale in.
19019	Malpigh.	V woody	High climbing fr. only.
19020	Rubiaciae	V herb	Cr. wh., fr. gr.
19021	Pilea	H ± succ.	
19022	Loasa	H 1-2' straggling	bl. spreading Pet. wh.
19023	Psoralea	S 4-10'	Pet. deep blue.
19024	Saurauja	S 12-20' succulent T	Pet. wh.
19025	Comp.	S 4-6'	Rays bright y., florets
19026	Struthanthus	S epiph.	Per. gr.
19027	Hydrocotyle	H rep.	Fl. light gr.
19028	Moss	On damp rocks.	
19029	Eupatorium	S 6-10'	Cor. & styles wh.
19030	Dichosonia	Tree fern	Stipe ± 4', fr. ± 5', ± 10'
19031	Passiflora	V herb	Bud gr.
19032	Pilea	N succ.	
19033	Scleria	H coarse culms	lvs 2-4' long
19034	Rubiaciae	S 3-5'	stem simple below; cor. light
19035	"Pteris"	N fr. 1.5-3'; stipe ± 2'	
19036	Clusia?	T 10-15', trunk erect, straight, leafy	in whorls above; fls. borne
19037	Passiflora capsularis	V herb	Sep. gr. red, wh. in; Cor. Pet. wh.;
19038	Grass	H 3-5' drooping	
19039	Thibaudia	S 3-4'	Cor. wh., faintly pi.
19040	Jacobinia	H 1.5-2'	Cor. red

Feb. 1 Dense forest, bet. Calif. & Chanta 2200 m.
open hillside, Vic. Chanta 2000 -
woods along stream 2200 m.

deep y.

pi. - tinged.
pinnae to axis.

g. paler at base; fr. black.
on main stem between nodes

Feb. 2
fr. 6-angled & thickened
open hillside
at apex

19041	Eupatorium	S or small tr. 8-12'	Cor. wh., lobes rusty. light pi.
19042	?	H or S? branch	hanging over cliff;
19043	Monnina	S erect, 5-8'	Pet. blue-imp.
19044	Passiflora capsularis	V herb Woody	Buds gr.
19045	Habenaria	H ter.	Sep. wh., col. light g.
19046	Ficus	T 30-40'	
19047	Senecio	S 6-10'	Reap bright y; heads
19048	?	T?	See notes
19049	?	S or small T 10-15'	Tube gr., lobes pi.; stam. wh., anthers at
19050	Passiflora "pubera"	S 5-10'	Fr. flattened at apex, See notes slightly
19051	"	S 8-10'	
19052	Rosaceae	T 12-20'	T 12-20', in in full
19053	Quercus	S or small T 15-20'	Pet. wh.
19054	Tournefortia	V woody	Cor. gr. wh.; fr. wh.
19055	?	T 30-40'	Fruit up to 2" diam.
19056	Ruprechtia	T 12-15'; stem erect, unbranched below; fr. light gr.	
19057	Cordia	S 4-5'	Cor. gr. - wh.
19058	Serjania	V herb.	Fr. light gr.
19059	Ruprechtia	T 20-25'	Fr. pi.
19060	Comp.	H 4-6'	Pappus gr. - wh.
19061	Passiflora "pubera"	S 8-12'	
19062	Passiflora coriacea	H herb	
19063	"Ciba"	T 50-70'	
19064	Acacia	T 60-100'	Fr. black
19065	?	T 30-35'	Fls. gr. wh.
19066	Bauhinia	T 15-20', spreading crown; petals wh.	
19067	Petraea	S 6-10'	Ca. bright blue
19068	Jasminum	S 3-10', br. sement	Cor. wh.
19069	Jasminum	S 8-10', sement br.	Cor. wh.
19070	Psychotria	S 10-15'	
19071	moss	moist soil	
19072	hepatic	" "	
19073	"	decaying wood	

Feb. 2	Open hillside, vic. Charta	2000- 2700 m.	110001
	pet. gr., darker prox.		110002
			110003
			110004
			110005
			110006
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- 19074 moss soil on rotten log
 19075 hepatic decaying wood.
 19076 moss " "
 19077 palm T. trunk 8' frond 6-10' stipe 2-4' di
 19078 *Quercus* T. 40-70'
 19079 *Papaya* S. 8-12' cor. g. w.
 19080 *Momonga* S. 8-15' pet. intense blue
 19081 *Miconia* S. 4-8' pet. w. ~~cor.~~ sta. g.
 19082 comp. S. 2-3' pap. light p.
 19083 *Befaria* S. 1-2' cor. + fil. p. ant. g. y.
 19084 comp. T. 12-15' sty. w. pap. w.
 19085 *Andropogon* H. 4-6' erect
 19086 *Mapleleum* H. 2-3' bran. heads y. g.
 19087 *Myrica* S. 10-15' fr. ashy grey
 19088 *Inga* T. 25-40' pet. g. fil. w.
 19089 *Solanum* S. 6-10' ant. y. g. ant. y. pet. w.
 19090 *Pellaea* F. among loose rocks
 19091 *Zibaudia* S. 8-12' fr. g. w. to pinkish
 19092 *Cestrum* S. 10-12' fr. o. to light r.
 19093 *Piper* S. 6-8'
 19094 *Buddleia* T. 10-15' cor. o. y.
 19095 (lab.) S. 3-4' bran. cor. w.
 19096 *Sellaginella diffusa* (Presl) Spring det. Somers 1978 F. moist soil
 19097 *Pilea* H. 2-3' bran. elong. + droop.
 19098 *Viburnum* S. 10-15' fr. dark blue
 19099 *Zibaudia* S. 8-12' bran. elong.
 19100 (rub.) S. 12-15'
 19101 *Sipanea* S. 10-12'
 19102 *Piper* S. 3-5'
 19103 *Saurauja* S. 10-12' pet. w. star y.
 19104 *Passiflora ligularis* H. w. pet. w. cor. fil. g. w. + w. banded
 19105 lichen moist soil
 19106 " "

- 7d. 9. dense wet woods, w. st. Mt. San Vicente 25-2700
 oak forest vic. Chanta ± 2500
~~thickets~~ open hillside 2400
 10. thickets 2
 open hillside thickets

- 19107 *Eupatorium* S 4-8' cor. & sty. light p.
to w.
19108 ~~Alouatta~~ *Ossaea* S 2-6' pet. red p.
19109 *Chaetochloa* H
19110 *Solanum* S 6-8' cor. w.
ant. y. prox. g. dist.
19111 *Lichsonia* H F. caudex bulb. style 4-6'
fr. 3-6' steep fur.
19112 *Xanthosoma* H stem 2-3'
19113 *Claviya* H 3" diam.
19114 *Cissampelos* T 10-15' trunk + 2" dia.
fruit direct. from trunk
19115 *Camp.* H. U. fr. r.
19116 *Eupatorium* S 6-10' rays. y.
19117 ~~Eupatorium~~ *Engelmannia* S 8-10' cor. g. w. lobes & sty. p.
H 2-4' ray pinkish blue
cor. light sp. to w.
19118 *Mikania* H. U. cor. w.
19119 *Pilea* S. gray. elong.
19120 *Psoralea* S 6-8' pet. b.
19121 *Cufca* H. coarse pet. red p.
19122 *Sonchus* H 3-6' cor. y.
19123 *Euphorbia* H. coarse br. r. prox. in.
19124 (umbel.) H. succ. pet. w.
19125 *Dryopteris* F
19126 *Rebunium* H. V. br. o. to r.
19127 grass H.
19128 *Asplenium* F
19129 *Yersine* H coarse br. y. wh.
19130 *Polypodium* S 5-10' Rays y.
19131 *Struthanthus* S sepals with
S elong. br.
19132 *Salix* T 3-5' br. drooping
19133 *Struthanthus* S sepals with
S elong. br. (fruit of 19131? cor. red)
19134 *Gouania* V herb. fr. red.
19135 *Journefortia* S 8' br. Fr. wh. cor. g. - wh.
dist wh.
19136 *Cestrum* V woody Ripe fr. red.
19137 *Begonia* S 1-2' semiprostr. Sfr. gr.
19138 *Pilea* H succ. stem
H rooting below fr. gr. - wh.
19139 *Rubiaceae* V herb. fr. deep wine-color

Feb 10 thickets

vic. Charter

21-
2400

open hillside

thickets

open hillside

thicket

dense woods, southern slope Mt. San Martín

2300-2500m

- 19140 *Myrcia* Pr. becoming reddish ~~from~~
 19141 *Coccoloba* V woody Cor. gr.-wh.
 19142 *Oxalis* H succ. Pet. y., red striped.
 19143 *Gyneria* S 15-20' Br. wh. y.; cor. gr.
 19144 *Eupatorium* S 12-20' Cor. deep pi; sty. light
 19145 *Marattia* Cand. subt.; stipe 2-3'; fr. 3-4'
 19146 *Piper* S 2-4'
 19147 *Rubiaceae* H fr. elong.
 19148 *Asplenium* H ter. to 6'.
 19149 *Trichomanes* Climbing on tree trunks, closely appressed
 19150 *Siparuna* S 8-15'
 19151 *Hep.* On 19150
 19152 *Meriania* T 20-30' Pet. rich pi., anthers
 19153 *Trichomanes* On trees pur., wh. dist.
 19154 *Rubiaceae* S 12-15'
 19155 *Odontoglossum* H epip.
 19156 *Rubiaceae* T 15-20' Br. gr.; cor. gr. wh.
 19157 *Dioscorea* V woody Pr. glaucous
 19158 *Carludovica* Trunk slender, along tree trunk, to 15' high
 19159 *Columnnea* H ter, fr. elong. up to 3'
 19160 *Piper*
 19161 *Trichomanes* H epip.
 19162 *Trichomanes* H epip.
 19163 *Peperomia* H epip.
 19164 *Pilea* H succ. Per. gr.-wh.
 19165 *Polypodium* H epip.
 19166 *Peperomia* H epip.
 19167 *Rubiaceae* S 12-15' Cor. bud. gr. yut.
 19168 *Diploteris* Cand. 1-2', semi-erect; stipe \pm 3' front black
 19169 *Solanum* S 6-10' Cor. wh., anthers y.
 19170 *Stelis* H epip. fr. gr.
 19171 *Oreolobos* H epip. fr. gr.
 19172 *Hep.* On 19172

Feb. 10 dense woods, southern slopes Mt. Martin 2300-2500 m.

dense, brown-red, lobes gr.
 pi.

fr. 4-5'

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- 19173 *Maritelia* Cand. 2-5', erect; stipe 3-4', fr. 4-6' long
 19174 *Pteris mucronata* Griseb. H 2-4', fr. J
 19175 *Polypodium* Nepip.
 19176 *Diplazium* Cand. subt, stipe 3-5', fr. 3-4'
 19177 *Lepidogramma* S slender, 15-18'; fr. brownish red.
 19178 *Brachistrium* S 8-15'
 19179 "Pteris" Cand. subt., stipe 3-5', fr.
 19180 *Anethum* H epip.
 19181 *Piper* S 6-8'
 19182 *Odontoglossum* Nepip. 3 sep. brown, tipped with y.
 19183 *Trichomanes* 2 sep. br.-banded brown half.
 19184 *Orchid* Appressed to tree trunks.
 19185 *Peperomia* Nepip. See notes
 19186 *Elaphoglossum* Nepip.
 19187 *Rub.* S 12-15' Cor. lobes wh.
 19188 *Heliconia* Cand. 2-3', erect, stipe 2-4'; fr. 3-5'
 19189 *Trichomanes* H epip.
 19190 *Erythrocloe* H ter. Per. wh., gr. tinged apex
 19191 *Asplenium* H epip.
 19192 *Hep.* On trees
 19193 *Moss* Sec. log
 19194 " Moist bank
 19195 *Lichen* On roots of epip. orchid
 19196 *Canavalia* H 3-4' br. cal. g. w., per. ting. at base + apex pet. w.
 19197 *Tillandsia* H epip.
 19198 *Lycopodium* H epip. dependent
 19199 *Polypodium* H epip.
 19200 *Polypodium* H epip.
 19201 *Pilea* H ter.
 19202 *Polypodium* H epip.
 19203 *Rubiacinae* H 1-3' br. elong. Cor. wh.
 19204 *eg. Chloris* H Pet. deep purp.
 19205 *Centropogon* H 2-3' Cor. red

Feb. 10 dense woods, ^{Vic Charta} southern slopes Mt. Martin ^{23-2500 m.}

2-4'

A.R. CORPETERSEN, E. B. det T. Croat 1990

white upper, y. marg.; lip, purple-brown, col. wh., ^{appendage} purple

Open hillside, Vic. Charta
 Thickets

2100 -
 2400 m.

19206	<i>Equisetum</i>	H	
19207	<i>Borreria</i>	H fr. semi prostrate	Cor. wh.
19208	<i>Solanum</i>	T 10-12'	Cor. wh.; anthers dark gr.
19209	<i>Waltheria</i>	S 2-3'	Pet. y.
19210	<i>Polygala</i>	H	Sep. gr. to dark purp. Pet. pi., y at base
19211	<i>Trichomanes</i>	On trees	
19212	<i>Pleurothallis</i>	H epiphyte	Fr. gr.
19213	Lichen	on trees	
19214	Hep	On Piper	
19215	"	On trees	
19216	"	" "	
19217	<i>Mercurialis</i>	" soil	
19218	Moss	" "	
19219	"	" dec. logs	
19220	"	" " "	
19221	<i>Begonia</i>	S 6-8'	Seps. wh. anthers y.
19222	<i>Eupatorium</i>	S 3-6', fr. drooping	cor. gr.-w., lobes deeply pi., sty. dark purp.
19223	<i>Teuca</i>	T 15-25'	Seps. gr.-y.
19224	<i>Cassia</i>	T 8-20'	Pets y.
19225	<i>Miconia</i>	S 6-10'	Pet. wh.
19226	<i>Viburnum</i>	T 10-18'	Fr. black
19227	<i>Conaria</i>	S 6-10'	Seps. gr. to purp.
19228	<i>Lippia</i>	T 15-25'	Cor. gr.-wh.
19229	<i>Rapanea</i>	T 5-10'	Cor. gr.-wh.
19230	<i>Miconia</i>	S 8-12'	Fr. blue
19231	<i>Monnina</i>	T 12-15'	Pet. deep blue
19232	<i>Caopia</i>	T 8-15'	Pet. y.-g. longitudinally red-streaked
19233	<i>Dioclea</i>	V herb.	Fr. brownish
19234	<i>Paspalum</i>	V herb. twining	Seps. purp. red wh. in pet. wh., cor. y.-g, purp.
19235	<i>Miconia</i>	S 6-8'	Pet. wh., pi.-tinged; fil.
19236	<i>Struthanthus</i>	V woody epiphyte	Per. gr., anthers wh.
19237	<i>Eupatorium</i>	S 4-10'	cor. wh., faintly pi.-tinged styles darker
19238	<i>Cordia</i> sp.		Cor. gr.-wh., fruit wh.

Feb. 10	Open hillside, vic. Chanta	2100 - 2400	80201 80202 80203 80204 80205 80206 80207 80208 80209 80210 80211 80212 80213 80214 80215 80216 80217 80218 80219 80220
	dense woods, vic. Chanta	southern slope Mt. Martin 2300 - 2500 m.	80221 80222 80223 80224 80225 80226 80227 80228 80229 80230 80231 80232 80233 80234 80235 80236 80237 80238
11	thickets along stream, east of Chanta	2200 - 2500 m.	80239 80240 80241 80242 80243 80244 80245 80246 80247 80248 80249 80250 80251 80252 80253 80254 80255 80256 80257 80258 80259 80260
			80261 80262 80263 80264 80265 80266 80267 80268 80269 80270 80271 80272 80273 80274 80275 80276 80277 80278 80279 80280 80281 80282 80283 80284 80285 80286 80287 80288 80289 80290 80291 80292 80293 80294 80295 80296 80297 80298 80299 80300

bunches; inner grass-gr.; outer ± clavate
wh., anthers gr. wh.

- 19239 *Castilleja* H 2-3' Br. & sep. gr. - ~~pink~~, red dist.
 19240 *Vernonia* S 5-15', drooping Cr. wh. lobes, pi. Pappus wh.
 19241 *Bidens* S 6-8' Rays wh., cor. greenish
 19242 *Melastema* V herb Pet. gr. wh. (sep. gr. - br. out, wh. in)
 19243 *Passiflora* V herb twining
 19244 *Centropogon* V woody Cr. pi.
 19245 *Lantana* S 2-6' Fr. black, shiny
 19246 *Blechnum* H (rocky crevices)
 19247 *Gouraria* H herb Cr. gr.
 19248 *Cissampelos* V herb Pet. g. g.
 19249 *Solanum* T 8-12' Cr. wh., anthers y.
 19250 *Centropogon* V herb. prostrate or humus Cr. pi., wh. fr.
 19251 *Radicula* H ± prostrate Pet. pi. wh.
 19252 *Grass Polyanthus* H
 19253 *Polypodium* T 15-25'
 19254 *Muhlenbergia* V herb, prostrate or on rocks Per. gr. - y.
 19255 *Centropogon* V woody Cr. pi., paler in.
 19256 *Cissus ???* T 15-20' Ripe fr. red; pet. y. g.
 19257 *Dicliptera* S 6-10' Cr. red.
 19258 *Diplazium* Caud. 1-2' erect, stipe 1-1.5' fr. 3-5'
 19259 *Pteris* Caud. sub. ± 6" above ground; V woody Fr. gr.
 19260 *Solanum*
 19261 *Selaginella* H prostrate; br. elongate diffusa (Presl) Spring det. Somers 1968
 19262 *Acauth.* S 8-12' Cor. bright red
 19263 ? S 10-12' Fr. red.
 19264 *Preslia* V woody Per. gr. - wh.
 19265 *Rubiaceae* S slender (or herb?) 3-4' Cor. red.
 19266 *Palm* T 8-10'; trunk 1 in. diam Per. wh. / fr. at top
 19267 *Cyathea* Caud. 10-20' stipe 2-3' fr. 10-20'; fl. yellow ± 15 per side
 19268 *Antennaria* H. ep. spatulate o. y.
 19269 *Epidendrum* H. ep. sep. salmon lip. y.
 19270 *Pilea* H. succ.
 19271 *Asplenium* F. ep.

- Feb. 11 thickets along stream, east of Chanta 2200-2500m
 pet. wh.; cor. gr., faintly 1-banded in prof. (inner open. grass-gr.)
 Swamp
 Thickets
 deep woods, western slopes Mt. Peña Blanca 2500-2600m
 ± 10 ft. to side
 stipe 6-10'; fr 3-4'
 up to 0.5 to 1 ft. below lvs.

- 19272 Polypodium
 19273 (junior.)
 19274 Polypodium
 19275 ~~Rapanea~~ Dryopteris
 19276 Dryopteris
 19277 Hemiteles
 19278 Polypodium
 19279 Elaphoglossum
 19280 Passiflora
 19281 Mikania
 19282 (rub.)
 19283 Polypodium
 19284 Polypodium
 19285
 19286 Palicourea
 19287 Erythroxylon
 19288 (rub.)
 19289 Anthoceros
 19290 lichen
 19291 moss
 19292 fungus lichen?
 19293 Brachystem
 19294 fungus
 19295
 19296 Bauhinia
 19297 Polypodium
 19298 orchid
 19299 Gaultheria
 19300 Alsophila
 19301 Uromyces
 19302 Rapanea
 19303 Alsophila
 19304 Elaphoglossum

- F. ep.
 S. 2-3' cor. w.
 F. 2-3' long, drooping
 F. rootstock, bifurcated
 F. to tree trunk
 F.
 F. caudex 6-8' erect
 F. stipe 1-2' fr. 3-4'
 F. ep.
 F. ep. terr.
 H. V. no fl.
 S. 2-3' long, cor. q. w. lobes deep p.
 S. 8' long, sty. light p.
 S. 6-12' fr. o. y.
 F. terr.
 F. terr.
 S. slender fr. q.
 S. 15-18' cor. w. at base,
 S. 2-4' q. above
 H. terr. per. w.
 S. 3-4'
 moist bank
 on tree
 " "
 on turf
 S. 3-4' cor. & fil. q. w.
 S. ant. brown
 on 19293, leaves
 T. 15-20'
 H. V. sep. y. q. at pedicel, pet. y.
 H. V. ant. q. sty. pale y.
 F. ep.
 H. ep.
 S. 10-15' n. p. fr. n. p.
 F. caudex subt. or slightly
 F. above ground erect, st. 4-6'.
 S. 3-5' cor. & ant. n. p.
 S. 10-15' cor. q.
 F. caudex subt. st. 3-5'
 F. fr. 3-4'
 F. caudex subt.

Feb. 11 deep woods, w. slopes Mit. Peña Blanca 25-2600

sparsely wooded slopes Chanta 25-2600

per. dotted in.

fr. 4-6'

19305	Wernmannia	T 10-15'	Tr. g-w.
19306	Muesonia	S 8-10'	Tr. wh.
19307	Galearia	S 6-10'	Cr. wh.
19308	Hubaudia	S 12-15'	Br. pi. cor. pi. fr.
19309	Moss	On tree trunk	wh. dist.
19310	Viburnum	S 10-12'	
19311	Escallonia	S 10-15'	Pet. wh.
19312	Hubaudia	S 8-10'	cor. p.
19313	Polygala	H. gran. clon.	pet. deep. p.
19314	(rub.)	H. 2-3'	fr. r.
19315	Salix	trunk 3-4'	
19316	Caradonia	1/2-1" di.	
19317	Hymenophyllum	trunk 3'	2" di. st. 4-5'
19318	(rub.)	F. on moist bank	cor. w.
19319	Saurauja n.sp.	H. 2-3'	
19320	Antennaria	S 8-12'	pet. w. fil. g. ant. y.
19321	Epilobium	H. terr.	spathe r. pur.
19322	Burmannia	H. terr.	spathe g. w.
19323	Asplenium	H. to 6'	sep. grass g. pur. spot. in.
19324	(guinev.)	H.	column. y. g. sep. y. g. -
19325	Antennaria	F.	per. w.
19326	Smilax	H. 3-5'	cor. y.
19327	hepatie	H. terr.	spathe g.
19328	lichen	W. U.	
19329	moss	moist banks	
19330	lichen	moist on turps	
19331	"	dec. log.	
19332	"	moist bank.	
19333	"	"	
19334	"	"	
19335	"	"	
19336	hepatie	"	
19337	"	"	

Feb. 11 sparsely wooded slopes vic. Ch. 25-2600

dense woods vic. Ch. 25-2600

pur. blotched at base

- | | | | |
|-------|-----------------------------|----------------------------------|-----------------------------------|
| 19338 | Bryoph Biophytum | H. | cor. light b. |
| 19339 | Polypala | H. | pet. light sp. |
| 19340 | Passiflora capsularis | H. V. | ind. q. w. |
| 19341 | Epidendrum lutea | H. | per. y. cd. p. |
| 19342 | Passiflora orbifolia | H. V. | dec. clavate |
| 19343 | Hypoxis | H. | per. y. |
| 19344 | Calceolaria | H. | cor. y. |
| 19345 | Cassia | H. ± woody | pet. br. y. |
| 19346 | Hebeana | H. terr. | |
| 19347 | Escobedia | H. 2-3' | cor. w. |
| 19348 | Cissampelos | H. V. | per. q. |
| 19349 | Cordia | S. 6-10' | cor. q. w. |
| 19350 | Clidemia | S. 4-6' | cor. p. |
| 19351 | Anemina | F. | |
| 19352 | comp. | H. | ray. y. |
| 19353 | Cyperus | H. | |
| 19354 | Eriolabus | H. V. | cor. q. y. |
| 19355 | Centrum | T. 10-20' | cor. q. y. fr. light. r. |
| 19356 | Gtms | T. 10-20' | cal. q. w. pet. & fil. w. aut. y. |
| 19357 | Indigophora | S. 5-8' | pet. p. |
| 19358 | Acalypha | H. ± woody | pet. yellowish |
| 19359 | rub. (acanth.) | H. 2-4' | fil. r. cor. w. |
| 19360 | Piper | H. slender | |
| 19361 | Acalypha | S. 4-12' | |
| 19362 | Verbena | S. 8-12' | star w. |
| 19363 | Peperomia | S. 10-15' | cor. tube q. x, lobes y. |
| 19364 | Peperomia | H. on rocks | |
| 19365 | Cidantium macrophyllum | H. terr. | |
| 19366 | (umbel) | H. on rocks | pet. w. fr. q. |
| 19367 | Pyropterus | F. proliiferous | |
| 19368 | Saccoloma | F. stipe 3-5' caudex subtr. | |
| 19369 | Cardolovica | F. fr. 2-4' "trunk" & subtr. -1' | |
| 19370 | Pilea | H. stipe 3-5' | |

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|---------|---------------|-------------------------|-----------|-------|
| Feb. 16 | open hillside | vic. Buck | 1000-1200 | 88801 |
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| | wooded slopes | between Buc. & El Roble | 1200-1500 | 14801 |
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- 19371 (juv.)
 19372 *Piper*
 19373 *Hipleyum*
 19374 *Hipleyum*
 19375 *Zectaria*
 19376 *Passiflora*
 19377 *Salanum*
 19378 *Lotaxalis*
 19379 *Pteris*
 19380 *Asplenium*
 19381 *Asplenium*
 19382 *fungus*
 19383 *Peperomea*
 19384 (*rub.*) *Cordia*
 19385 lichen
 19386 *Senecio*
 19387 *Lioclea*
 19388 *Vernonia*
 19389 *Salvia* "dominica"
 19390 *Salvia* " (Hem. *argus* *lites*)
 19391 (*rub.*)
 19392 *Mimosa*
 19393 *Polypodium*
 19394 *Ecolabus*
 19395 *Lonyopteris*
 19396 *Momonia*
 19397 orchid
 19398 *Opereculia*
 19399 *Triunfetta*
 19400 *Passiflora pubera*
 19401 *Phenax*
 19402 *Rhododendron*
 19403 *Chelomantellus*
- H 13' cor. br. o.
 S 8-10'
 F caudex sub t.
 F.
 F.
 H V. no fl.
 H 1 1/2-2' pet. w. ant. y.
 H 1 woody below pet. y.
 H 3-4'
 F.
 F. proflerous
 F. on 19361
 H 12-15'
 on rocks
 H V. fl. y.
 W. V. stem + wings, deep
 fl. w. fur. keel w. tiny
 W. V. fl. w.
 H 2-4' cor. p. b.
 H 3-5' cor. bright r. o.
 S 10-12' cor. p.
 T. 12-20'
 F.
 H V. cor. g. w.
 F.
 S 5-7' pet. deep. b.
 H 12-15' buds g. y.
 H V.
 S 5-8' pet. y.
 S 3-4'
 S slender
 S 4-8'
 E. S.
 H cor. light y.

Feb. 16 woods along stream, Cl Roble ^{vi.} ± 1500 2

17. thickets bet. Cl Roble & 7000 1500-1900 2
 with p.

woods

open hillside
 wood.

- 19404 *Cassia* S. slender pet. y.
 19405 *Pilea aluminoides* H. 1-3'
 19406 *Euphorbia* H.
 19407 *Myriocarpa* T. 12-20' trunk 2-3' diam
 19408 *Peperomea* H. terr.
 19409 *Lepidium* H.
 19410 *Galactia* H. U
 19411 *Tasycias* H. bran. elong.
 19412 *Isolana* H. cor. br. r. lobes yellowish
 19413 *comp.* H. 2-6' fl. g. y.
 19414 *Eupatorium* H. 2-4' cor. w.
 19415 *Cassia* "alcaparra" S. or small T. 8-12'
 19416 *Salvia occidentalis* H. ± woody ~~2-3'~~ cor. w. prox. b. dent.
 19417 *Peperomea* H. terr.
 19418 *Polygodium* F. terr.
 19419 *comp.* H. U. ray t. cor. o. r.
 19420 *Passiflora* H. U.
 19421 *(rutaceae)* T.?
 19422 *Epidendrum* H. 3 sep. r. lip. y. col. p. x. at apex
 19423 *Cestrum* S. 4-6'
 19424 *Hibiscus* S. 8-10'
 19425 *Acalypha* S. 6-10'
 19426 *(Labiaceae) Urena* S. 6-10'
 19427 *Euphorbia* H. 1 1/2-2 1/2' pet. w.
 19428 *Sellagmella* F.
 19429 *Epidendrum* H. terr. sep. t. lip. col. reddish light y.
 19430 *Stelis* H. all fl. parts g. y.
 19431 *orchid* H. per. light y.
 19432 *orchid* H. per. light n. p. sequents n. striped
 19433 *Stelis* H. br. g.
 19434 *Claphoglossum* F. terr.
 19435 *Thibaudia "guemadera"* S. 4-8' cal. g. w. cor. p. prox. w. dent lobes w. fil. w. ant. p. y.
 19436 *Claphoglossum* F. terr.

Feb. 17. open hillside bet. El Robb + Tona 1500-1900
 woods

r. dots

open hillside
 woods

at apex open hillside

ant. p. y.

19437	<i>Centropogon</i>	U. V.	cor. l.r.p.
19438	<i>hepatic</i>	moist banks	
19439	"	"	"
19440	"	"	"
19441	"	"	"
19442	"	"	"
19443	"	"	"
19444	<i>lichen</i>	"	"
19445	"	on rocks	
19446	<i>Chrysanthemum</i>	H 2-4' sap w. cor. y.	
19447	<i>Cassia</i>	T 8-15' pet. y.	
19448	<i>Cobaea</i>	H. V. long cor. greyish p.	
19449	"	T. 10-15' pet. p. ant. y.	
19450	(clus.)	S 12-15' l.r.g.	
19451	<i>Prescottia</i>	H. terr	
19452	<i>salum</i>	D. leaves 3-5' fr. o.r.	
19453	<i>Adiantum</i>	F.	
19454	<i>Palicourea</i>	S 2-4' cor. g. w.	
19455	<i>Ucuna</i>	S. or small T. pet. w.	
19456	<i>Peperomia</i>	H. terr	
19457	<i>Pilea</i>	H. to 3' per. g. w.	
19458	(lab.)	H. ± 2' cor. p. b.	
19459	<i>Mapillana</i>	H. on trees per. o. p.	
19460	<i>Thibaudia</i>	S 8-12' l.r. l.p. cal. g. lobes w.	
19461	<i>Yerminamia</i>	S. 15-20' cor. f. new ant. p.	
19462	<i>Schauburgia</i>	T slender	
19463	<i>Psachne</i>	H. 4-8' sup. deep. p. lipp.	
19464	<i>Pilea</i>	V. herb	
19465	<i>Oxalis</i>	H. up to 5' per. gr. - wh. pet. y.	
19466	comp.	H. succ. along to 4'	
19467	comp.	S 10-12' sap y.	
19468	<i>Solanum</i>	H. V. sap w.	
19469	<i>Mikania</i>	S 5-10' fr. g.	
		S. with cor. w. scar. bay.	

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- 19470 *Picramnia* S. 5-8' pet. & fl. deep. r.
 19471 *Idinanthus* H.
 19472 *Peperomia* H. sp.
 19473 *Asplenium* F. tem.
 19474 *comp.* S. 15' upper bran. droop. fl. w.
 19475 *Saurauja* S. 5-8' to ground
 19476 *Momunia* S. 6-10' pet. b.
 19477 *Eugenia* T. 20-25' pet. w. star y.
 19478 *(melast.)* H. 2-2 1/2' pet. rich p.
 19479 *Ficus* S. 8-12'
 19480 *Saurauja* S. 8-12' pet. & fl. w.
 19481 *(tilia)* T. 25-30' fr. fl. p. y.
 19482 *Phenax* S. 3-5'
 19483 *Inyoptera* F.
 19484 *Tournefortia* T. 10-12'
 19485 *Eupatorium* H. 3-4' cor. w.
 19486 *(malvaceae)* H. coarse pet. b.
 19487 *(malvaceae)* H. 2-3' woody cor. y.
 19488 *Alaucoa* H. 2-3' cor. o.
 19489 *Carex* H.
 19490 *Suggena* S. slender cor. w. fr. p. per.
 19491 *Stenonolynchus* S. 12-15' bran. very droop.
 19492 *Diplazium* H. tem. fl. br. r.
 19493 *Tournefortia* F.
 19494 *Maxillaria* S. 6-8'
 19495 *moss* H. on rocks per. p. o.
 19496 *lichen* decaying wood
 19497 *moss* tree trunk
 19498 *lichen* " "
 19499 *"* " "
 19500 *hepatic* " "
 19501 *"* " "
 19502 *Bignonia* T. 20-25' cor. rich p. fallow

Feb. 17. woods

vic. Tong

1900-2100

clearing.

woods

thickets

- 19503 *Buddleia* T 12-20' cor. y.
 19504 *Parosela* S 2-3' branching pet. p. pur. above
 19505 *Solanum* S 5-8' pet. w. ant. y.
 19506 S 10-12' sep. p. ting. out.
 19507 *Epidendrum* H terr. sep. H. lip pur. col. q. y.
 19508 *Passiflora maximilliana* H U. ripe fr. deep. pur.
 19509 *Salium* H elong. cor. w.
 19510 *Laurus* H pet. w.
 19511 *Amsinckia* H cor. cream. y. at throat in fr. w.
 19512 *Annu* H fr. q.
 19513 *Xanthoxalis* S 6-10' fr. br. q.
 19514 *Trifolium* H pet. w. p. ting. dust. out.
 19515 *Cordia* S 6-10'
 19516 *Weinmannia* S 3-5' pet. t. sta. q. w.
 19517 *Crotan* T 12-15'
 19518 *Cassia* T 10-20' pet. y.
 19519 *Salvia* H 2-3' cor. br. r. wat base
 19520 *Passiflora mixta* H U. corona in 1 series
 19521 *Echeveria* H cor. w. pur. at center
 19522 *Solanum* H U. tube blue. ant. y.
 19523 orchid H ep. sep. g. out. y. q. w.
 19524 *Solanum* S 6-8' pet. w. ant. y.
 19525 *Cleome* H 5-5' pet. q. y.
 19526 *Cestrum* T 12-20' cor. y.
 19527 moss dec. log.
 19528 hepatic moist bank
 19529 " among roots of ep. orchid
 19530 *Perettia* S 3-4' cor. p. w.
 19531 *Befaria* S 1-3' cor. br. r. pet. w.
 19532 (melast.) H ± w. sty. r. dust. q. w.
 19533 *Hypocnemis* H pet. y. sta ± ad
 19534 " H pet. y.
 19535 *Eupatorium* S 5-7' fl. parts w.

Feb. 17. thickets

vic. Tong

19-2100

open hillsides
thickets
open hillsides

Feb. 18

western slopes
Par. de Salitruvi,
vic. Tong 22-2800thickets
o. h.
thick.
o. h.

2

28-3300

prox

- 19536 *Odentoglossum* H terr. 5. sep. y. br. r. at base
 19537 comp. S. 6-8' rays y. fl. deep y.
 19538 *Papaver* H pet. light deep
 19539 *Epipactis* H terr. per. w.
 19540 *Peperomia* H ep.
 19541 *Peperomia* H ep.
 19542 *Senecio* H. 2-3' fl. light y.
 19543 lichen tree trunk
 19544 moss " "
 19545 lichen on branches, etc
 19546 moss moist soil
 19547 *Boueria* H U sep. & pet. o. y. pet. pur. spot. throat in.
 19548 *Ranunculus* H in water of sep. pale y.
 19549 ~~*Isotria Medocharis*~~ F "
 19550 *Wernera* H. heads y.
 19551 *Halenia* H cor. w. sep. y. - tipped
 19552 *Espeletia* H ^{entire} plant 6-8" rays y. cor. tube pale y. lobes y.
 19553 *Castilleja* H br. & sep. 9. prob. r. dist.
 19554 *Seranium* H cor. g. & y. pet. p.
 19555 *Elaphoglossum* F terr. sep. y.
 19556 *Ranunculus* H heads dark grey
 19557 *Peperomia* H ^{entire} plant 1-5' indument y. rays y.
 19558 *Espeletia* H 1-5' caudex sub.
 19559 moss soil
 19560 lichen "
 19561 " "
 19562 " branches, etc
 19563 (seroph.) H fr. light g.
 19564 *Hypocnemis* H + w. pet. y.
 19565 comp. H rays g. w. cor. y.
 19566 *Wernera* H ~~rays~~ heads y.
 19567 *Lobelia* H tube b. w. lobes rich b.
 19568 *Malvastrum* H

- Feb. 18 paramillo western slopes par. de Santurbán, nr. Tana 3000 2
 35-3600 2
 38-4300
 paramo de Santurbán
 19. paramo de Santurbán Norte de Santander 40-4500
 42-4500

19569	Valeriana	H	cor. w.
19570	Momordica	S 2-4'	pet. rich b.
19571	Diplostegium	H + W	ray w. cor. g.
19572	comp. Buddleia	T 10-20'	
19573	Vicia	H V.	stan. deep bl.
19574	Castilleja	S 1-3'	unisp. & leaf light bl.
19575	Vaccinium	S 6"-12"	br. & sep. g. prox. r. dist
19576	comp.	T 12-20'	cor. g. y.
19577	Orobanch	W. U.	cor. w.
19578	grass	H	heads y.
19579	Paspalum	H	pet. r. p.
19580	Eleocharis	H	
19581	Polygala	H	pet. deep. p.
19582	Aragoa	S compact	cor. w.
19583	Arcytophyllum	S 3-4' round crown.	cor. w.
19584	Arenaria	H pro.	pet. w.
19585	Geranium	H	pet. p.
19586	Halimolobos	H	cor. g. spur w. g. tip.
19587	Hypericum	S 12-3'	pet. y. stan. ± 20
19588	Asphalium	H	heads y. g.
19589	Mananilla	S 2-5'	pet. p. ant. y.
19590	Weinmannia	T 8-12'	
19591	Senecio	S 2-3'	heads y.
19592	Jamesonia	F. moist	
19593	Jamesonia	F. banks	
19594	Hypericum	S ± 1'	pet. y. stan. 40-50
19595	Rubus	W. U.	pet. o. fl. light p.
19596	Melastom	S 4-6'	ant. dark g.
19597	Miconia	S 5-7'	pet. p.
19598	Ilex Symplocos	S 5-7'	pet. w. ant. w.
19599	Mutisia	T 12-20'	pet. light p.
19600	19599 Fuchsia	W. V.	sta. y. prox. br. n. dist
19601	Polypodium	S 4-8'	cor. light y. ant. y.
		F. sp.	pet. r. p.

Feb. 19. Paramo de Santurban

40-
4500
39-
4200

20. eastern slopes of Santurban
towards Mutiscua

38-
3900

open hillside
paramillo " " " " "

3650-
3900

P. cc-11

sta. y. ant. g. woods

- 19635 (~~scroph.~~?) *Calceolaria* H pro.
 19636 comp. H 2-3' rays bright y.
 19637 comp. H rays w, cor. y.
 19638 Aster H rays w, cor. y.g.
 19639 Stellaria H V. pet. w.
 19640 Arabis H coarse sep. pur, pet. w.
 19641 (umbel.) H 2-3' pet. w, fr. g.
 19642 Eupatorium H 5-8' much- pet. w, fr. g.
 19643 Epipactis H coarse cor. & sty. p.
 19644 Anagallis H 4-5' cor. br. b.
 19645 Cuscuta grandiflora H pro. since cor. cream w.
 19646 Cestrum V. 4-7' cor. g. y.
 19647 Anisimbia H cor. w. fr. w.
 19648 Jungia "bara" ^{used for} _{herbs} H coarse rays w, cor. w.
 19649 Geranium H 4-6' pet. pale, sep. w.
 19650 Uicia H U. prox. with s. p.
 19651 Phytolacca H stan. pur. whit. in
 19652 *Prunus capuli* T. 30-40' pet. w.
 19653 *Rapianus* H to 3' pet. rich p.
 19654 *rub. oleacea* T. 12-15' cor. g. w.
 19655 Cassia T. 10-12' pet. y.
 19656 Fuchsia T. 1' bran. in upper 1/3' tr. 3-5" di.
 19657 Fuchsia S. 6-10' tube + sep. w. pet. p. r.
 19658 Cheilanthes F. heads purplish
 19659 *Graptophyllum "lechugilla"* H
 19660 Gynostegia F.
 19661 Amaranthus "bledo" H S. 6-10'
 19662 Piper H sep. g. w. sty. pur.
 19663 comp. "tavera" H fl. g.
 19664 Atroplex H fl. y. g.
 19665 Chenopodium "baico" H fl. g. w.
 19666 Parietaria "same" H fl. g. w.
 19667 Tagetes "ruda cinarosa" H 6-20" fl. w.

Feb. 20 open hillside

uc. Muttscing

29-3600

Keel w.

22 thickets

26-2800

P. cc-s

open hillside
(used for indigestion)(u. indigestion)
(baths for ulcers)(u. tropical anemia)
(u. " " "
(u. insect poison)ray g. w.
cor. y. g.

- 19668 Solanum "boraja" pet. w. (u. for pneumonia)
 19669 Tradescantia "calaguala" H. ant. y. per. deep. p. sta. w.
 19670 (myrta) "raian" S. compact
 19671 Matricaria ~~huta~~ "mangayalla" pet. p.
 19672 Esodum "alfileres" H. pet. p.
 19673 Physalis "pedro noche" S. 1-2'
 19674 Calceolaria H+1' cr. y.
 19675 Urtica "ortiga" H.
 19676 Frauseria "altruniza" S. 7-10'
 19677 Urtica "ortiga" H. (use on sheet)
 19678 ~~grass~~ "itamo real" or "muri" H. 10-15'
 19679 Carica T.
 19680 Myrsotis H. cor. light b.
 19681 Passiflora mollissima H. U. decer. else.
 19682 Solanum S. 8-10' cor. w. ant. y.
 19683 Salvia H. 3-5' cor. br. r.
 19684 Hypericum H. pet. y. sta. \pm 40
 19685 Passiflora niesta H. U. plant length q.
 19686 Phorodendron E. S. on Uicoma
 19687 Juncus H. 80-100'
 19688 Eucalyptus T. 10-12'
 19689 Piper T. trunk 2" di. ant. y.
 19690 comp. T. 12-15'
 19691 Alnus T. 20-30'
 19692 Salvia H. bran. semi- cor. br. blue
 19693 Verbesina plant 10-15' app. herbaceous
 19694 (malpigh.) S. 12-15' throughout
 19695 comp. U. U. rays light y.
 19696 Uernonia S. 2-3' bran. pap. cream ed.
 19697 Roupala ~~lance~~ ~~lance~~ T. 12-15' sep. q. y.
 19698 Juncus H. on moist soil
 19699 Cufalonum S. 8-10' fl. parts light p.
 19700 Passiflora pinnatifida H. U. decer. else w. climbing on shrubs

Feb. 22 open hillsides vic. Atutucang 26-2800 2
 (u. for fever etc.)
 (u. for tropical anemia)

(u. to reduce swellings)

paranao near Atutucang 2800
 o.h. vic. Atutucang 26-2800

23 thickets bet. Atutucang & Panapana 27-3000
 o.h.

thickets

on moist bank
 clearing
 o.h.

thickets

o.h.

thickets

p-1 P. p-1

88001

88001

87301

17301

87301

87301

87301

87301

87301

87301

87301

P. 2. 0-334

88001

88001

88001

88001

88001

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88001

88001

P. 2. 4-5

88001

88001

88001

P. 2. 6

88001

88001

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- 19701 orchid
 19702 *Calceolaria crenata*
 19703 *Calceolaria perfoliata*
 19704 *Cardamine*
 19705 *Salvia*
 19706 *Brachistrium*
 19707 *Weinmannia*
 19708 *Liplostegium*
 19709 *Gaultheria*
 19710 *Senecio*
 19711 *Centropogon*
 19712 *Paspalum myta*
 19713 *Elaphoglossum*
 19714 *Miconia*
 19715 *Conocephalum*
 19716 lichen
 19717 orchid
 19718 *Cerastium*
 19719 grass
 19720 orchid *Pleurothallis*
 19721 *Hieracium*
 19722 *Gaultheria*
 19723 *Halenia*
 19724 *Tofieldia*
 19725
 19726 *Roupala*
 19727 *Hypocissium*
 19728 *Oreomyza*
 19729 *Stipa*
 19730 *Paspalum*
 19731 *Eupatorium*
 19732 *Lycopodium*
 19733 *Bomarea*

sep. & lip y. brown,
 col. g. y. cor. y.
 H. lax
 H. up to 2' long
 H. 2-4' cor. y.
 H. cor. rich p.
 H. cal. deep pur.
 H. cor. plum. r.
 S. or small T. cor. light y.
 S. 10-15'
 T. 10-12' fr. 2-3" di. bray. only above
 S. 10-12' rays w. aut. deep pur.
 S. 2-3' sep. light. br.
 S. 4-8' br. g. cor. tubes pale g.
 S. 6-8' lobes y. sep. w.
 W. U. cor. r.
 H. V.
 F. 12-20' pet. w. fr. w.
 T. aut. & sty. light g.
 moist banks
 " "
 H. terr. fr. g.
 H. lax, subcan. pet. w.
 H.
 H. terr.
 H. 1-3 1/2' heads y.
 S. 4-6' cor. light p. to w.
 S. cor. g. spec. w. g. tip.
 H.
 H. 20-25' fr. subglobose
 T. + 1 cm. diam.
 S. 6-8' cal. cream w.
 S. slender
 S. 7-10' pet. y. sta. ± 40.
 H. 2-2 1/2' pet. g.
 H.
 H.
 H. cor. g. w. lobes & sty.
 H. light p.
 F.
 H. V. sep. a. r. pet. y. reddish
 dist. aut. pur. dot. in.

- Feb. 23. rocky hillside bet. Munt.
 & Pauplana 3000-3200
 edge of woods
 moist stream banks
 edge of woods
 o. h.
 edge of woods.
 rocky banks
 edge of woods.
 rocky banks
 edge of woods
 o. h.
 e. w.

32-
3400

1
2

- 19734 *Fuchsia* S. 3-9' bran. cal. r. prox, p. r. dist
 19735 *Salvia* H. dependent pet. r. cal. q. to pur.
 19736 *Lycopodium* F. Twoddy at base cor. light t, w.
 19737 *Roripala* T. 10-20'
 19738 *Thibaudia* S. 6-10' cal. r. to pur. cor. deep r.
 19739 *Eupatorium* S. 10-12' paler at lobes & in. ant. y. to brown sty. r.
 19740 *Osteomalyp* S. 2-3' long. S. on *Miconia*
 19741 *Pterodendron* E. S. same as 19714?
 19742 *Bolanum* T. 8-12' pet. w. cor. w. ant. fr.
 19743 *Eugenia* T. 15-20' pet. w. fr. pur. black
 19744 *Pterodendron* E. S. on *Miconia*
 19745 *Thibaudia Roripala* S. 6-10' fr. p. r.
 19746 *lichen* dry bank
 19747 *"* moist bank
 19748 *"* *"* *"*
 19749 *moos* *"* *"*
 19750 *Alchemilla* H. pet. q. w.
 19751 *Clusia* T. 8-15'
 19752 *Miconia* T. 10-15' pet. & ant. w.
 19753 *Synpochium* H. cor. y, 2 cm. diam.
 19754 *Centropogon* S. 8-10' bran. cor. br. r, lobes o. r.
 19755 *Castilleja* S. 3-5' S. droop. br. & sep. q. prox, r. dist
 19756 *Valeriana* W. V. sep. y. in ant. at margin
 19757 *Cuphea* H. Twoddy cal. r. p, lobes q.
 19758 *Maytenus* T. 15-20' pet. deep b.
 19759 *Osteomalyp* S. 4-5' pet. q. fr. y.
 19760 *Barteloua* H. pet. w. ant. p.
 19761 *Polypodium* F.
 19762 *Roripala* T. 15-20' sep. cream w.
 19763 *Begonia* H. 2-2 1/2' sep. & pet. p.
 19764 *Salvia* H. U. below cor. q. y.
 19765 *Lodonia* S. 2-5'
 19766 *Weinmannia* T. 12-15'

Feb. 23 edge of woods bet. Munt
 at base + Pamp.

32-
3408

30-
3208

o. h.
edge of woods

25-
3008

cor. q.

o. h.

e. w.

o. h.

- 19767 *Tillandsia* H. terr. on per seq. p.
 19768 *Smilax* W.U. fr. o. r.
 19769 *Croton* S. 6-10' pet. y. w.
 19770 *Passiflora* H.
 19771 *Audropogon* H.
 19772 *Cestrum* T. 12-15' cor. y. g, pink. in.
 19773 *Rhamnus* T. 15-20' fr. black
 19774 *Prunella* T. 20-25' seeds black, shiny.
 19775 *Passiflora balbreyeri* H. U.
 19776 *Anacardium* T. 15-20' pet. q. y.
 19777 *Inga* T. 15-25' sta. w.
 19778 *Eupatorium* S. 8-12' cor. brown. pur.
 19779 *Solanum* S. 3-4' lobes sty. p.
 19780 orchid H. terr. much-bran. fl. pale y.
 19781 *Libanidia* H. up to 2 1/2' high. lob. brownish prox. in.
 19782 *Agrostis* S. 4-8' cal. g. cor. pale r. prox.
 19783 *Cyperus* H.
 19784 *Synnesopogon* H. 3-5' cal. fl. q. dark r. prox.
 19785 *Castilleja* H. 3-4' fr. black
 19786 *Flacourt* T. 15-20' pet. y. w.
 19787 *Prunus* T. 25-40' pet. y. w.
 19788 *Osteonolip* S. 6-8' fr. black.
 19789 *Poly podium* F. ep.
 19790 *Phorodendron* E. S. on 19786
 19791 *Mimosa* S. 2-4'
 19792 *Salvia* H. 1-3' cor. br. blue.
 19793 *Baccharis* T. 10-12'
 19794 *Cordia* S. 8-12' cor. green.
 19795 *Eupatorium* H. cor. q. w.
 19796 *comp.* W. U. lobes + sty. pinkish
 19797 *Weinmannia* S. 3-4' pap. w.
 19798 *Solanum* S. 6-10' pet. w. ant. p.
 19799 *Eupatorium* S. 8-15' cor. q. w.

Feb. 23 o. h.
 27. thickets
 o. h.

bet. Munt.
 + Pamp.
 vic. Pamp.

25-
 3000
 23-
 2400

thickets
 edge of woods
 o. h.

o. h. Valley Rio Pamplona n.e. of Pamplona

20-17-1500
 2500

20-
 2500

- 19800 *Mammia* S 5-6' pet. br. b.
 19801 *Passiflora balbreyeri* H. U. on *Lippia*
 19802 *Phorodendron* E S. woody cor. q. w. lobes pale p.
 19803 *Eupatorium* H. below 3' pet. w. stopp.
 19804 *Serjania* W. U. pet. w.
 19805 *Bocconia* S or T. 10-20' panicle up to 2' l.
 19806 *Solanum* S 6-10' pet. b. stay y.
 19807 *Cassia* S 4-6' pet. y.
 19808 *Verbena* S 4-3' ray + sep. y. cor. q. y.
 19809 *Weinmannia* S 8-12'
 19810 *(malpigh.)* W. U. bl. parts w.
 19811 *Stem* H.
 19812 *Panicum* H.
 19813 *Chaetochloa* H.
 19814 *Malaxis* H. stem. 3 sep. q. o., midrib r.
 19815 *Befania* S 6-10' 2 sep. pink, with 2 r. stripes
 19816 *Evolvulus* H. U. cor. light y. ant. y.
 19817 *Begonia* H. stem + woody sep. p. just y.
 19818 *(rub.)* 19821 S or small T. cor. + fil. q. y.
 19819 *Begonia* H. stem 1/2 woody sep. p. just y.
 19820 *(malpigh.)* W. U. pet. y.
 19821 *Myrcia* T 12-20' sta. w. pet. w.
 19822 *Clusia* S 10-12' pet. w. sta. y. q.
 19823 *(ant.) Srocea* S 10-15' sep. q.
 19824 *(malpigh.)* W. U. pet. y.
 19825 *Solanum* H. U. pet. w. ant. y.
 19826 *Begonia* H. succ. sep. + pet. br. r.
 19827 *Piper* S 8-12'
 19828 *Crastum* H. lax pet. w.
 19829 *Alsophilla* H. cand. subt. stipe 3-5'
 19830 *Centropogon* F. fr. 2-4' cor. r. lobes o.
 19831 *Fuchsia* W. U. fl. tube + pet. r.
 19832 *Senecio glabra* S 6-8' cor. q. y.
 W. U.

7 dr. 27. o. h.
 thickets
 o. h.

n. e. of
Pamplona 20-
 2500

th.
 o. h.

th.
 o. h.

sep. pink r. dotted

th.
 o. h.
 e. w.

25-
 3000

±3000 m.

- 19833 *Piper* S 8-12'
 19834 *Leabum* H 1' ray y. fl. deep y.
 19835 *Cyathea* F. ~~candel~~ erect 4-8',
 19836 *Chelonanthus* H 2-3' cal. g. l. y. ting. dist.
 19837 *Valeriana* V herb Cor. y-g.
 19838 *Epipactis* H ter Per. wh.
 19839 *Centropogon* V woody Cor. deep red, lobes
 19840 *Mikania* V woody Cor. wh.
 19841 *Psychotria* S 8-12' Br. purplish-gr.
 19842 *Senecio* V woody Cor. bright y.
 19843 *Bomarea rubra* V herb Seps. deep red; pet. deep
 19844 *Eupatorium* T 12-15' Cor. wh.
 19845 *Eupatorium* S 8-12' Cor. wh. to light pi.
 19846 *Palicourea* H 1-2.5' Cor. rich y, lobes
 19847 *Pilea* H ± succ. Plant purplish
 19848 *Psychotria* S 10-12' Fr. only
 19849 *Passiflora tpecutiflora* V herb Sterile
 19850 *Ilex* T 12-20' Pet. wh.
 19851 *Gesneriaceae* H 2-3' Br. red.
 19852 *Struthiopteris* V stem turning about trunks
 19853 *Orchid* H 8-10' sepals 3 out, sep. light gr.
 19854 *Gesneriaceae* S 8-10' Cor. red, shining
 19855 *Valeriana* V herb Cor. gr. wh.
 19856 *Dryopteris denticulata* H
 19857 *Cyathea* Cand. upright 6-8', st. 2-3', fr. 4-6'
 19858 *Polypodium* H herb
 19859 *Carlodivia* H Cand. ~~sub~~ horizontal high
 19860 *Hymenophyllum* H herb
 19861 *Hemitelia* Cand. 1-2' ± erect, st. 1-2', fr. 3-4'
 19862 *Rhynchospora* H 2-3'
 19863 *Moss* On soil
 19864 " " "
 19865 " " "

Feb. 27. Woods

Maracailis o. crinitos w. lashed
 divide between: + 3000
 Rio La Teja Rio
 medine

lobes p. pale at centre

grah.

red dist., ysh prox.

paler

red dist. striped; hairs within deep purple

- 19866 Moss on trees
 19867 " " "
 19868 " " "
 19869 " (— a. sp. luf.) " "
 19870 Bomarea v. herb. Out. per. red.
 19871 Passiflora rugosa v. woody See notes
 19872 Senecio v. woody Rays y, florets y.
 19873 Comp. S. small T 10-15' Florets light gr.
 19874 Tournefortia T 20-25' Ar. tube with silvery hairs, lobes wh, fr. wh.
 19875 Comp. S 10-15' Pappus whitish
 19876 Polypodium at base of trees Cor. orange prox. y. d. st. green apex
 19877 Begoniaceae? S 3-4'
 19878 Anethrum H. ter
 19879 Mercuria T 15-30' Pet. deep purple; anthers
 19880 Eupatorium S. 2-4' tube pale y. cor. 2-4'
 19881 T 10-12' pet. & fr. w. anthers
 19882 Inga T 8-12' star w.
 19883 Juncus H. marshy
 19884 Carex H. soil
 19885 ~~meleat~~ (Lab.) S slender cor. p.
 19886 Comp. S 2-5' pap. w.
 19887 Cibotium S 6-10' F. caud. erect. 3-10' fr. 3-6' (incl. st.)
 19888 Monarda S 4-8' pet. b, paler prox
 19889 sedge H. marshy
 19890 H. soil cor. tube & lobes
 19891 Viola S 8-12' 9. y.
 19892 scroph. H. prox. or moist soil pet. w.
 19893 Sysynchium H. moist soil. pet. y.
 19894 Cyperus H. " "
 19895 grass H. " "
 19896 Sysynchium H. " "
 19897 S 6-10'
 19898 S 10-18'

- Feb. 27 Woods Divide between Rio La Teja & Rio Mesme + 3000 m. 22801
 22802
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- 19899 Ronpala
 19900 (rub.) Melast
 19901 ~~grass~~
 19902 (rub.)
 19903 Boneria
 19904 Rubus
 19905 (rub.)
 19906 Castilleja
 19907
 19908 camp.
 19909 camp.
 19910 Peperomea
 19911
 19912 camp.
 19913 Eupatorium
 19914 Tubandia
 19915 Polypodium
 19916 Tillandsia
 19917
 19918 hepatic
 19919 Viola
 19920 Solanum
 19921 Centropogon
 19922 orchid
 19923 Heteroglossum
 19924 Marumia
 19925 Solanum
 19926 Peperomea
 19927 Lycopodium
 19928 Boneria
 19929 Trichomanes
 19930 Hymenophyllum
 19931 Asplenium
- S. or low T. cor. pale g.
 S. 10-18' pet. + sta. w.
 S. 8-15' ~~fr. black.~~
~~H. up to 6'~~
 S. 8-15' fr. black.
 S. V. sep. p. pale in
 H. V. pet. g. + sta. w.
 U. V. pet. pale p.
 S. 8-15' pet. w.
 I woody br. t. sep. g. prox,
 H. 2-4'
 T. 10-15'
 S. 8-15' pap. y. w.
 H. 1-3'
 H. ep.
 S. 8-12'
 S. 4-8' corolla pale g.
 S. 2-4' lobes y. pap. w.
 S. 2-4' corolla pale g.
 S. 8-10' lobes flaty. pet. w.
 cal. deep r. cor. br. r.
 F. ep.
 E. H. bracts fresh. o.
 S. 8-15' pet. + sta. w.
 S.
 on trees pet. w. pur. streaked
 H. H. semi-pro. in.
 S. 10-12'
 W. U. cor. br. r. lobes o.
 H. ep.
 S. 8-15'
 S. 8-12' pet. br. b.
 S. 3-6' pet. b.
 S.
 E. H.
 F.
 H. V. sep. r. pale in
 H. V. pet. o. r. pale in.
 F. ep.
 F. ep.
 F.

Feb. 28. thickets along stream ^{dunel} between ²⁵⁻ 3000m.
 Rio La Teja & Rio
 Mesma

x. prox, fur. spots at apex in.

try. dist.

open hillside

the woods

dense woods along stream

with r. stripe in center out

- 19965 orchid
 19966 —
 19967 *Centropogon*
 19968 *Botrychium*
 19969 *Pilea*
 19970 *Saccolana*
 19971 *Lycopodium*
 19972 —
 19973 *Peperomea*
 19974 *Asplenium*
 19975 *Centropogon*
 19976 —
 19977 *Centropogon*
 19978 *Asplenium*
 19979 *Columnia*
 19980 *Centropogon*
 19981 *Begonia*
 19982 *Columnia*
 19983 *Lipayanum*
 19984 *Hymenophyllum*
 19985 *Polypodium*
 19986 grass
 19987 *Rubus*
 19988 *Asplenium*
 19989 *Polypodium*
 19990 grass
 19991 *Centropogon*
 19992 *Borueha*
 19993 *Centropogon*
 19994 *Solanum*
 19995 *Peperomea*
 19996 *Trichomanes*
 19997 *Polypodium*

- E. H.
 S 3-6' cor. l.r.r.
 H 2-3' cor. pink r,
 lobes o.
 F.
 H 2-3'.
 F. caudex sub., st. 2-3'.
 F. fr. 3-8' pedunc 15-25 ft
 F. fr. (incl. st.) 5-7 ft
 S 8-12' cor. g.w.
 H ep.
 F ep.
 S 3-5' cor. r, lobes o.
 S 3-5' cal. + cor. lobes
 l.r.r.
 H 2-4' cor. + lobes l.r.r.
 H ter. spathe + spad.
 S 3-4' l.r. pink, to w.
 S 3-6' cor pink r,
 lobes o.
 H sep. g.w.
 H 2-4' l.r. light o.
 H caud. sub. stipe 2-3'
 F. fr. 3-4'
 F. ep.
 F. ter. or ep.
 H.
 W. V. pet. w.
 F. ep.
 F. ep.
 H.
 W. V. cor. l.r.r.
 H. V. seeds o.
 H 3-5' cor. o.
 S 4-6' pet. w. ant. y.
 H ter.
 F. ep.
 F. ep.

Feb. 28 densely wooded valley divide between 27-
 Rio La Teja 2900
 Rio Mesma

clearing
 thickets
 d. w. v.

- 19998 *Henitelia*
 19999 *Polypodium*
 20000 orchid
 20001
 20002 comp.
 20003 comp.
 20004 *Hydrocotyle*
 20005 *Centropogon*
 20006 *Piper*
 20007
 20008
 20009 comp.
 20010 *Tropheolum*
 20011 *Solanum*
 20012 *Miconia*
 20013
 20014 lichen
 20015 hepatic
 20016 "
 20017 moss
 20018 Inga.
 20019 *Tournefortia*
 20020
 20021 *Cestrum*
 20022 *Passiflora manicata*
 20023 *Tournefortia*
 20024 *Jussiaea*
 20025 *Boueria*
 20026 *Boueria*
 20027 *Chelamantibus*
 20028 *Miconia*
 20029 *Miconia*
 20030 *Miconia*

- F. cand. 3-5' erect
 F. stipe 2-3' fr. 3-5'
 F. ep.
 E. H. sep. g. w. streaked
 12-20'
 S. 4-6' cor. tube g. y.
 lobes
 H. rays w. pur. ting.
 cor. tube pale g. lobes y.
 H. marshy
 2-3' cor. br. r.
 S. 4-6'
 S. 10-15' cal. g. cor. g. y.
 becoming deep r.
 S. 4-6' cal. g. cor. deep b.
 H. 3-4' rays & cor. petals &
 cor. pale p. lobes
 H. V. & sep. g.
 H. 2-4' pet. w. dirty y.
 S. 8-12' pet. g. w.
 S. droop. pet. w. ant. fur.
 S. bran.
 on tree trunks
 - branches
 - tree trunk
 - decaying wood.
 T. 15-20'
 S. 10-15'
 S. H. pet. & sep. w.
 T. 10-15' cal. & cor. g. w.
 H. V. descr. else.
 S. 8-12' fr. w.
 S. 6-12' cor. br. o.
 H. V. sep. & pet. deep r.
 paler in
 H. 1-2'
 S. 4-10' cal. g. cor. tube y.
 H. rays g. dark & br.
 S. 8-12' fr. g.
 S. 6-10' pet. br. b.
 S. 10-12'

Feb. 28 d. w. v.

div. bet.
Ruta Jaja & K.
meane

27900

30001

00001

00002

20003

20004

20005

20006

d. w. v.

20007

20008

20009

20010

20011

20012

20013

20014

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20020

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20022

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20028

20029

20030

20031

20032

20033

Mar. 1 dense woods Pica - Pica valley
above Capata 2400

2

10

9

8

7

7

7

1

6

p. at lobes

1.

20065	—	H. V	pet. w.
20066	comp.	S. 3-7'	sep. w.
20067	comp.	S. 5-8'	cor. + lobes w.
20068	Solanum	S. 8-12'	pet. w. ant. y.
20069	Asplenium	F.	
20070	Colanum	S. 10-15'	pet. w. ant. y.
20071	grass	H.	
20072	comp.	H. long. tube g. w. cor. lobes	
20073	Rubus	H. elong. + sty. b.	
20074	Centropogon	W. V. pet. pale p.	
20075	Broussard	H. long. cor. pink. r.	
20076	—	H. elong. lobes o.	
20077	Polypodium	H. terr. fr. g. to o.	
20078	sedge	H. to 10'	infl. at base.
20079	—	F. fr. 4-5' l.	
20080	Salvia	H. 2-4'	pet. o. y.
20081	Mammia	H. 2-4'	cor. r.
20082	Peperomia	H. 4-6'	pet. fr. b. fr. deep. b.
20083	—	E. H.	pet. w. ting. with p. b.
20084	—	H. 2-3' slender	cor. tube p. lobes w.
20085	orchid	T. 8-12'	ting. with p.
20086	orchid	E. H.	
20087	(rub.)	E. H.	
20088	orchid	S. 8-10'	
20089	Antrophyum	E. H.	
20090	Begonia	F. ep.	
20091	Antium	H. 2-4'	sep. g. w.
20092	Peperomia	H. terr.	spathe r. in. green. r. ant.
20093	orchid	E. H.	fr. g.
20094	—	E. H.	fr. bl.
20095	Rhipidoptera	W. V.	
20096	(rub.)	H. ip.	
20097	Habenaria	S. 8-10'	
		H. terr.	

Mar. 3. woods

vic. Toledo. 1900

+ radix r.

- | | | |
|-------|---------------------|--|
| 20098 | <i>Lipflagium</i> | F. |
| 20099 | <i>Polypodium</i> | F. ep. |
| 20100 | <i>Cyathea</i> | F. cand. erect 2', 3-4" di. |
| 20101 | <i>Tillandsia</i> | F. st. 3-4', fr. 6-8' |
| 20102 | <i>Peperomia</i> | E. H. |
| 20103 | <i>Eupatorium</i> | E. H. |
| 20104 | <i>Rapanea</i> | H. 2-3' cor. 9. x. lobes b. |
| 20105 | orchid | T. 10-15' |
| 20106 | <i>Bromelia</i> | F. H. |
| 20107 | <i>Viburnum</i> | F. H. fr. q. |
| 20108 | <i>Thibaudia</i> | T. 12-20' fr. black |
| 20109 | orchid | S. 15-15' bran. cor. r. young lobes q. |
| 20110 | lichen | F. H. fr. q. |
| 20111 | hep. | on trees |
| 20112 | " | moist soil |
| 20113 | lichen | on trees |
| 20114 | " | on dec. wood. |
| 20115 | hepatic | on trees |
| 20116 | moss | " " |
| 20117 | lichen | " dec. wood. |
| 20118 | <i>Cordia</i> | tree trunks |
| 20119 | <i>Cuscuta</i> | T. 10-20' |
| 20120 | comp. | H. slender cor. p. b. |
| 20121 | <i>Tillandsia</i> | H. 3-4' fr. w. |
| 20122 | <i>Tillandsia</i> | H. U. fr. w. |
| 20123 | <i>Clusia</i> | E. H. |
| 20124 | <i>Peperomia</i> | E. H. |
| 20125 | <i>Cordia</i> | T. 8-12' |
| 20126 | <i>Polypodium</i> | F. on rocks |
| 20127 | <i>Arumia</i> | F. |
| 20128 | <i>Phoradendron</i> | E. S. |
| 20129 | <i>Rapanea</i> | T. 8-12' |
| 20130 | <i>Acalypha</i> | T. 10-15' sta. r. |

Mar 3 woods

vic. Toledo 17-1900

10 pinnas per side.
below apical spec.

open hillside

thickets along stream
clearingCul. val.
600 m.
above Tol

Pl. 1, 2, 3, 4

1350-
1600

open hillside

4. thickets Culaga Valley, 6-10 miles
above Toledo18-
2000m

- 20131 comp
 20132
 20133 *Eupatorium*
 20134 *Solanum*
 20135 *Lup.*
 20136 *Passiflora*
 20137 *Solanum*
 20138 *Tournefortia*
 20139 comp
 20140 (rub.) *Cinchona*
 20141 *Cassia*
 20142 *Miconia*
 20143 *Centropogon*
 20144 *Polygala*
 20145
 20146 *Cassia*
 20147 *Cufea*
 20148 *Castilleja*
 20149 *Miconia*
 20150 *Halenia*
 20151 *Piper*
 20152 (Puritie)
 20153 *Cufea*
 20154 *Solanum*
 20155 comp
 20156 *Solanum*
 20157 ~~Solanum~~ *acanth.*
 20158 *Cestrum*
 20159 *Polypodium*
 20160 grass
 20161 *Peperomia*
 20162 *Polypodium*
 20163 *Antennaria*
 20164 orchid
- S. bran. elong. pap. w.
 very common.
 W. U. sep. & cor. y.
 H. 5-6' ± woody tube. g. w.
 below lobes b. w.
 W. U. pet. w. ant. y.
 fr. o.
 T. 12-20'
 H. U. fr. round - 3-4 cm. di.
 dark g. with g. w. spots
 S. 5-8' pet. d. ting. with b.
 S. or small T. sta. y.
 S. 10-18'
 H. 2-3' tube pale g.
 cor. lobes w.
 T. 10-15' cor. & lobes
 brownish.
 S. 8-12'
 T. 10-15' fr. deep. pur.
 cor. rich p.
 W. U. pet. br. b.
 H. occas. w.
 T. 10-15' bran. elong.
 S. 8-12'
 H. up to 4' cor. tube pale g.
 2 pet. deep. b.
 S. 3-4' br. cal. fr. cor. g. prox.
 y. dist. rug. red.
 S. 4-6' pet. w. sta. y.
 cor. g. w. lobes w.
 W. U. w. below
 T. 12-15'
 T. 15-25'
 H. 2-5' cal. tube g. becoming r.
 pet. b.
 S. 6-8' pet. w. ant. y.
 ray. y. cor. tube g. x.
 lobes y.
 T. 6-12' bran. above, bran. ascend.
 H. 6-8' pet. r. ting. with y.
 T. 15-20' fr. black.
 F. 1-2'
 fr. 3-5'
 H. on wet rock
 E. H.
 F. ep.
 E. H. fr. bluish w.
 E. H.

Mar 4. thickets Culagá valley, 18-2000m
 4-10 miles above Toledo 2

striped with r.

woods along stream Culagá valley, ± 2000
 nr Tapatá

pet. w. ant. y

- 20165 Inga
 20166 orchid
 20167 *Psychanthus*
 20168 *Polystichum*
 20169 *Eupatorium*
 20170 *Peperomea*
 20171 *Asplenium*
 20172 orchid
 20173 *Polypodium*
 20174
 20175 *Tournefortia*
 20176 moss
 20177 *Bromelia*
 20178 *Peperomea*
 20179 *Hibiscus*
 20180 *Cuscuta*
 20181 *Tournefortia*
 20182 *Metastoma*
 20183 *Phenax*
 20184 *Uberum*
 20185 *Alausoa*
 20186 *Utricularia*
 20187 *Laurus*
 20188 *Pilea*
 20189 *Berberis*
 20190 *Euphorbia*
 20191 *Polypodium*
 20192 *Cordia*
 20193 *Styrex*
 20194 *Miconia*
 20195 *Bromelia*
 20196 *Pyropterus*
 20197 *Metastoma*
- T. 25-30' star w.
 F. H. sep. pale g.
 H. sep. pale g.
 F.
 H. 4-7' stem sty. &
 H. 1.5 cm. to base cor. l.
 E. H.
 F.
 H. terr.
 F. ep.
 H. U. cal. g. y.
 S. or small T.
 S. 12-15'
 ep.
 E. H.
 F. H.
 S. 8-12' bran. pet. p.
 S. elong. cor. g. w.
 U. sep.
 T. 12-15' fr. w.
 T. 2-3' cor. g. w. lobes w.
 H. 2-3' pet. white p.
 S. 6-10'
 S. or small T. fr. deep. b.
 S. 8-15'
 H. much. fr. pet. o.
 H. up to 3'
 T. 10-12' fr. greyish
 H.
 H. cal. p. pet. w.
 T. 15-20' cor. & lobes, be-
 coming pur.
 H.
 F. fr. up to 5' l.
 T. 8-10' tr. erect, 2" di.
 T. bran. divaricate Cor. g. w.
 T. 12-15' pet. w. style g. w.
 T. 10-12' 3" di. fil. faint. style g. w.
 T. H. terr. pet. fil. & style w.
 F.
 T. 15-20' cal. r.

Mar. 4. woods along stream Culapi valley
 nr. Tapata ±2100

B.

Dense woods Pica-Pica valley, 21-2400
 open hillside
 dense woods

pet. w. long with p.

- | | | |
|-------|----------------------|--|
| 20231 | (rub.) | T. 12-15' |
| 20232 | <i>Polypodium</i> | F. |
| 20233 | <i>Hymenophyllum</i> | F. ep. |
| 20234 | <i>Centropogon</i> | H. V. 3-7' pet. w. ant. y. |
| 20235 | <i>Solanum</i> | H. fr. br. r. |
| 20236 | (rub.) | H. term. |
| 20237 | <i>Anthurium</i> | T. 10-15' |
| 20238 | | F. |
| 20239 | <i>Lipayanum</i> | S. 8-10' fr. fr. o. be-coming black |
| 20240 | | F. |
| 20241 | <i>Lycopodium</i> | H. $\pm 3'$ cal. q. ped. y. with b. spot in. prov. |
| 20242 | <i>Polypodium</i> | W. U. cor. q. y. |
| 20243 | <i>Mikania</i> | W. U. pet. b. |
| 20244 | (ro.) | E. H. 3 sep. deep purr. |
| 20245 | orchid | E. H. fr. q. |
| 20246 | " | H. term. |
| 20247 | <i>Habenaria</i> | F. ep. |
| 20248 | <i>Polypodium</i> | " |
| 20249 | " | E. H. |
| 20250 | orchid | F. ep. |
| 20251 | <i>Hymenophyllum</i> | H. dependent on fr. q. |
| 20252 | <i>Ericaceae</i> | H. tree trunks |
| 20253 | hepatic | on tree trunks |
| 20254 | moss | dec. wood |
| 20255 | " | mont. banks |
| 20256 | " | on humus |
| 20257 | " | dec. wood |
| 20258 | <i>Polytrichum</i> | on banks |
| 20259 | orchid | E. H. fr. q. bec. br. |
| 20260 | " | " " " |
| 20261 | " | " " " |
| 20262 | " | " " " |
| 20263 | <i>Phorodendron</i> | E. S. in comp. |

- 20264 *Lipayanum* F. entire fr. 4-6' h.
 20265 *Lipayanum* H.
 20266 sedge H.
 20267 *Myosotis* F.
 20268 *Asplenium* F. *proliferans*
 20269 *Asplenium* H. *opathe* g.
 20270 *Begonia* H. *cr. g.w.*
 20271 orchid F. H.
 20272 *Lichosmia* F. fr (incl. st.) 5-6'
 20273 (rub.) S. 8-12' *cr. g.w.*
 20274 *Polypodium* F. *caudex 1' st. 3-4'*
 20275 *Alseodora* F. *erect fr. 3-4'*
 20276 *Alseodora* T. 15-20' *bran. fr. o.r.*
 20277 hepatic on banks soaked by water
 20278 moss of a hot spring
 20279 " partially in water of hot spring
 20280 algae in water of hot spring
 20281 lichen ep. 40-5' (fruit edible)
 20282 *Ficus* "lechers" S. 8-10' *tr. pet. br. b.*
 20283 *Momonga* S. 1" di. fr. black.
 20284 *Passiflora* T. 12-15'
 20285 *Lippia* S. or small T. *cr. g.w.*
 20286 *Tournefortia* S. 8-10' *cr. g.w.*
 20287 lichen on slender branches
 20288 orchid *Sepanthes* E.H. *cr. g.w.*
 20289 orchid " *cr. g.w.*
 20290 " *Sep. pink; gr. tinged*
 20291 " *Sep. light pinkish gr.*
 20292 " *purpl. striped; sep.*
 20293 " *sep. deep purp.*
 20294 " *sep. pale & dist.*
 20295 " *pi-purpl. dist.*
 20296 " *Sep. gr. y. Column*
reddish pi.
Buds light gr.

Near B. dense woods Pica-Pica valley 21-2400
 above Tapatá

open hillside western side of Culagá 21-2200
 valley, above Tapatá

edge of woods
 O.H.

woods *Sep. purp. - pi. dist. greenish prox.* + 2300
less. deep purp. beneath.

stapex

gr. - y, pink-striped

- 20297 *occlud* E. H. Sep. pi. wh. purple-spotted
- 20298 "
- 20299 " Sep. gr. y.
Lvs transversely red-stippled
fls. light gr.
- 20300 " Dist. sep. pi., inner
+ lip green
- 20301 " Per. wh. prox. purp. dotted,
deep purp. dist.
- 20302 " Sep. greenish, pi. tinged
- 20303 " Sep. deep purp.
- 20304 " Sep. purplish-red prox.
pale y dist.
- 20305 "
- 20306 " Young inf. purplish
- 20307 " red, lustrous
- 20308 "
- 20309 " Dependent from tree
trunks, buds light gr.,
Sep. light gr.
- 20310 "
- 20311 "
- 20312 "
- 20313 "
- 20314 "
- 20315 " Segments deep
purplish pi., not dotted.
- 20316 " Buds gr., faintly
purpl-dotted
- 20317 "
- 20318 "
- 20319 Lauraceae T 10-15' Buds gr. wh.
- 20320 *Centropogon* V woody Cr. deep red to light red
- 20321 *Trichomanes* H epip.
- 20322 *Xanthosoma* H epip. o Spadix wh.
H ter. Sp. pi. red, prox. gr. dist.
ped. o pet.
- 20323 *Anthurium* H ter. Sp. green, $\pm 2'$
- 20324 *Oreopanax* T 20-25'
- 20325 *Anthurium angustifolium* H epip. Spathes gr.
- 20326 *Diplazium* H epip.
- 20327 *Cibola* V woody, peduncles very slender
dependent, involucre
calyx
- 20328 *Nibania* V herb Cr. + style pi. wh.
- 20329 *Nibania* V herb Cr. " " wh.

Mar. 5 woods western side of Culagá, 12300
valley, about Tapala

red, lustrous

faintly pi.-dotted; lvs. purp.-dotted above.

purplish pi., not dotted.

purpl-dotted

to

dark 6
light gr., corolla light gr.
open hillside
woods

20330	<i>Siparuna</i>	S 8-12', stem slender, br. spreading	
20331	<i>Piper</i>	S 8-10' young spikes wh.	
20332	<i>Psychotria</i>	S 8-12' br. reddish-br.	
20333	<i>Senecio</i>	V woody	flowers y.
20334	<i>Melastoma</i>	H 2-3' Pet. wh.	
20335	<i>Asplenium</i>	H epip.	
20336	<i>Peperomia</i>	H epip., succ.	
20337	<i>Piper</i>	S 3-5' Spikes wh.	
20338	<i>Piper</i>	T 15-20' Spikes drooping	
20339	<i>Peperomia</i>	H epip.	
20340	<i>Bomarea</i>	V herb Pr. only	
20341	Hep.	On logs of <i>Thibaudia</i>	
20342	Moss	On decayed branches	
20343	Lichen	On slender tree trunks	
20344	<i>Epipactis</i>	H Per. gr. wh.	
20345	<i>Bartia</i>	H up to 2'	
20346	<i>Stigmaphyllon</i>	V woody Pr. only	
20347	<i>Saurauja</i>	T 12-20' Pet. wh.	
20348	<i>Cyperus</i>	H	
20349	<i>Castilleja</i>	H Br. & sepals gr. prox. red dist.	
20350	<i>Piper</i>	S 4-5'	
20351	<i>Pteris</i>	H Stipe $\pm 4'$, central pinna $\pm 3'$	
20352	<i>Mimulus</i>	H 2-3' Cor. light y, fr. wh.	
20353	<i>Centropogon</i>	# H 4-5' br. spreading Cor. red	
20354	<i>Pleurothallis</i>	H epip. on dead trunks Per. reddish br.	
20355	Comp.	V woody Pls. wilted	
20356	<i>Echinocystis</i>	V herb Cr. gr. wh.	
20357	Orchid	H epip. Ar. only	
20358	<i>Isoloma</i>	H 2-3' Br. gr. wh. ^{retained}	
20359	<i>Begonia</i>	H spreading Pet. wh., styles y	
20360	<i>Cleome</i>	S 2-4' Pet. bright red	
20361	<i>Tropaeolum</i>	V herb Pls. tube red, lobes gr., Pet. deep purple	
20362	<i>Centropogon</i>	W. J. cor, l. lobes paler	

Man.	to woods above Tapata'	Western side of Culegá Valley	$\pm 2300m.$	0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
			2	7000S
				8000S
				9000S
			2	0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
				7000S
				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
				7000S
				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
				7000S
				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
				7000S
				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
				7000S
				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
				7000S
				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
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				8000S
				9000S
				0000S
				1000S
				2000S
				3000S
				4000S
				5000S
				6000S
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- 20363 *Stelis*
 20364 *Eupatorium*
 20365 *Plicum*
 20366 *Polystichum*
 20367 *Peperomia*
 20368 *Peperomia*
 20369 *Stelaria*
 20370 *Pilea*
 20371 *Cardamine*
 20372 *Mussaia*
 20373 *Asplenium*
 20374 *Isocera*
 20375 *Tobaria*
 20376 *Centropogon*
 20377 *Polypodium dimorphum*
 20378 *Polypodium*
 20379 *Alonsoa*
 20380 *Sterax*
 20381 *Africanus* comp.
 20382 *Meris mucronata* Griseb.
 20383 *Cestrum*
 20384 *Antrophyum*
 20385 *Lycopodium*
 20386 *Jurges*
 20387 *Lycopodium*
 20388 *Psychotria*
 20389 *Bahia*
 20390 *Pilea*
 20391 *Epilobium*
 20392 *Loasa*
 20393 *Paleonia*
 20394 *Centropogon*
 20395 *Orthoclytus*

- F. H. Endog.
 T. 12-15' cor. tube pale g.
 lobes & sty. pet. white.
 on dry logs
 F. lax up to terr.
 H. 3' long
 A. ep.
 H. lax pet. w.
 H. succ.
 H. up to 3' pet. pale b.
 H. pap. brist.
 W. V.
 F. ep.
 W. V.
 S. 5-6'
 H. 2-3' cor. br. r.
 F. on rocks
 F. ep.
 H. cor. pure w.
 T. 12-20' cor. & lobes w.
 p. ting. ant. y.
 W. V. pap. w.
 H. up to 4' h. inf. st.
 F. up to 25' tr. 1.5" di.
 T. bran. only near top
 F. ep.
 F.
 W. V. forming liana
 F. caud. 6" high, erect
 T. 15-20' 3" di.
 fr. deep p. pur.
 H. erect
 H. succ.
 H. semi-proc. pet. light p. to w.
 H. 3-4' pet. w. ant. y.
 H. straggling
 S. or small T. cor. fr. y.
 S. 10-12' cor. br. r.
 W. V.
 S. 8-10' (introduced)
 at Epala.

Mar. 6 wooded banks of stream Rio Loso 12400

cor. purple
 y. ting open woods, near Loso

Mar. 6 edge of woods

- 20396 *Marattia* F. st. 3.5' l.
 20397 *Asplenium* F.
 20398 *Cavilla sapotaceae* T 20-25' pet. pale y.
 20399 *Palicourea* S up to 15' sep. lvs. elong.
 20400 *Palicourea* S 10-12' fr. dark g. to pur.
 20401 *hepatic* on leaves
 20402 *Sellaginella silvestris* Asplund F.
 20403 *Pilea* H. erect Per. gr. wh.
 20404 *Liparis* H ter. Pr. only
 20405 "Rub." S 3-4' Cor. light y
 20406 *Polypodium* H herb
 20407 *Cyathea* Can. 4-20', 6-8" diam. Stipe 5-6',
 20408 *Passiflora* V herb sterile
 20409 *Palicourea* S 12-15' Pr. dark gr. to purple
 20410 *Coccoloba* H 2-3' Cor. wh., fr. bright blue
 20411 *Dryopteris* Can. 10" high, erect, stipe 3-3.5', fr. 5' 3';
 20412 *Piper* S 5-8'
 20413 *Martinezia* Trunk 3' high; fr. orange
 20414 *Saccoloma* H Pr. 5' l., ± 1' wide
 20415 *Solanum* S ± 8' slender Cor. wh., auth. y
 20416 *Asplenium* H herb.
 20417 *Cestrum* S 6-8' Tube gr., lobes wh.
 20418 *Centropogon nitida* ~~subcan.~~ Cor. red.
 20419 *Peperomia* H herb.
 20420 *Asplenium* H herb, fronds dependent
 20421 *Myrsineae* T 15-20', drooping
 20422 *Anthurium* fr. calyx tube wh, pet. rich pi.
 20423 *Brachistia* H erect 3-4', often becoming
 20424 *Trichomanes* shrubby
 20425 *Palicourea* H dependent from tree trunks
 20426 *Orchid* S slender, 8-12' Cor. wh.
 20427 *Palicourea* H herb. Buds gr.
 20428 *Antrophyum* S 10-15' Pr. bright blue;
 H herb.

Mar 7. edge of woods

near Zoo

± 2400

edge of woods
woods
woodsu.e. of Zoo
en. to Heran

fr. 12' to 15', 15 primas to side below apical specimen

6 primas to side below apical specimen

calyx gr., lobes blue

- 20429 *Asplenium* ter.
H tips rooting
- 20430 *Asplenium* Hter
- 20431 *Marchantia* Wet rocks
- 20432 Moss On dec. log
- 20433 Moss " " "
- 20434 Rubiaceae H ^{3-4'} 2-3' Fr. red, fls. gr.-wh.
- 20435 *Eupatorium* T 15-20'; specimens from fallen branch
- 20436 *Piper* S 6-8'
- 20437 *Claphoglossum* Hepip. in dense clumps on trees
- 20438 *Polystichum* Hter.
- 20439 *Peperomia* H auct. ter.
- 20440 *Diplazium* Hter
- 20441 *Asplenium* Hepip.
- 20442 *Peperomia* Hter.
- 20443 *Piper* S 4-6' Spikes wh.
- 20444 *Dryopteris* Hter.
- 20445 *Asplenium* Hter
- 20446 *Lauicula* H Fr. gr.
- 20447 *Peperomia* Hepib.
- 20448 *Polystichum* Hter.
- 20449 *Trichomanes* Hepib.
- 20450 Hep. Dependent on tree trunk
- 20451 *Acauth.* H 2-3' + w, Cor. deep red
- 20452 *Orchid* Hepib. 3-4' high
- 20453 *Dryopteris* H 3-4'
- 20454 *Orchid* Hepib. out. per. rose, purple-dotted
inner " g-g, faintly "
- 20455 Rubiaceae T 10-15'; cor. wh., fls. light pi.
anther yg.
- 20456 *Anthurium* Hepip. Spathe light gr.,
tassel 10-15' Bracts wh.
- 20457 *Lauraceae* Hepip. V herb, prostrate
also on forest floor Sterile
- 20458 *Acauth.* H suberulent Heads wh.
- 20459 *Alternanthera* On Piper leaf
- 20460 Hep. Hter.
- 20461 *Psacotria* Per. light pi. to wh.

Mar. 7 woods n.e. of Lase, en route to Klerian ±2400m.

sp. dark gr.

- 20462 *Saccoloma* H Caud. ^{repeated} 6-8' ^{Stipe} 3', Fr. 8'
- 20463 *Phypalis* H 2-4' fr. ^{senescent} Cor. pale y, dash gr -
- 20464 *Solanum* H ^{subcaud.} up to 4' l. Cor. wh, anth. y
- 20465 *Moss* On tree trunks
- 20466 " " "
- 20467 " " dec. logs
- 20468 " " tree trunks
- 20469 *Peperomia* H ^{epip.} Apparently sterile
- 20470 *Bomarea* V herb Fr. y-g.
- 20471 *Tournefortia* T 15-20' Cor. wh., fr. wh.
- 20472 *Psychotria* T 12-15' Cor. bright y
- 20473 *Solanaceae* S ^{branches elongate} Fr. or. - r.
- 20474 *Malpigh.* V ^{woody} climbing Pet. y. becoming reddish
- 20475 *Solanum* V ^{woody} Cor. purple red, wh. in
- 20476 *Elaphoglossum* H ter
- 20477 *Myrtaceae* T 15-20' Fr. gr.
- 20478 *Piper* S 3-4'
- 20479 *Polypodium lanceolatum* H ^{rep.} on tree trunks
- 20480 *Rubus* Y V ^{sd sp.}
- 20481 *Thibaudia* S 8-12' cor. br. r. prox. q. w. dist
- 20482 *Epideudron* F. H. fr. q. per. light q.
- 20483 *Phoradendron* E. S. ^{Myrtaceae}
- 20484 *comp.* H ^{15-20' high rays} becoming woody below
- 20485 *Cufea* H pet. deep p.
- 20486 *Solanum* W. V. cor. w. p. dotted out
- 20487 *Hypocnemis* H pet. y. anth. y.
- 20488 *Shuecia* H V ray & florets y.
- 20489 *Trutnantius* F. S. ^{on} *Myrtaceae*
- 20490 *Phypalis* H 2-3' cor. y, per. dotted
- 20491 *Cestrum* S ^{or small} 10-15' at center
- 20492 *comp.* S ^{bran. elong.} pet. cor. w.
- 20493 *Passiflora Kalbreyeri* H V
- 20494 *Baccharis* S 10-15' sep. w.

- Mar. 7 edge of woods, n.e. of Loco, en route to ^{Kerrin} $\pm 2400m.$
- spot near center
- woods
- edge of woods
- Vic. Loco $\pm 2400m.$
- anth. y-g. thickets
- rocky banks.
- edge of woods, Culagá Valley, vic. Tapata $\pm 2100m.$
- S. thickets
- open hillside
- thickets
- Culagá valley 18-2000
- 6-10 miles above Toledo.

- 20495 *Cassia*
 20496 *Salix*
 20497 *Gussaea*
 20498 *Ipomea*
 20499 *Cestrum*
 20500 *Calliandra*
 20501 *Atemnathera*
 20502 *Tantania*
 20503 *Asciasis*
 20504 *Cinchona*
 20505 *Inga*
 20506 *Ocimum*
 20507 *Lichen*
 20508 *Ficus*
 20509 *Baccharis*
 20510 *Vernonia*
 20511 *Cordia*
 20512 *Carex*
 20513 *Lichen*
 20514 *Lichen*
 20515 *Persea*
 20516 *Fresno*
 20517 *Noce*
 20518 *Lichen*
 20519 *Stenthipterus*
 20520 *Miconia*
 20521 *Rubus*
 20522 *Calliandra*
 20523 *Tillandsia*
 20524 *Inga*
 20525 *Myrcia*
 20526 *Orchid*
 20527 *Mint*

- T small pet x.
 10-15' tr 3'di.
 T 5-8' pet x.
 S 5-8' cor. pur. dist
 W. prox.
 S 5-6' cor. q. y.
 star w.
 Small T.
 10-12' H sub-ecan. heads
 H 2-3' woody cor. deep pink. pur.
 6-10' light blue
 T 12-15' cor. q. y. prox. lobes
 15-25' cr. r. at center
 star w.
 H Fr. only
 On dry logs
 T 12-15' spreading crown
 S 6-10' elong. br.
 infl. light gr.
 S 5-12' elong. br.
 pappus wh.
 S 8-12' cor. gr. - wh.
 H
 On rocky banks
 On rocks
 T 20' tr. 5-7 inches
 Pet. wh.
 S 4-7' Per. gr. - wh.
 On rocks
 On dry logs
 H 3-4'
 S 4-7' Buds pi. - wh.
 W. U. pet. p.
 H 2-4' star w.
 E. H.
 T 15-25'
 T 12-18'
 F. H.
 T 8-20' fr. g.
 pet. w.

Mar. 8. thickets Culagá valley, 6-10 miles above Toledo 18-2000

- 9 open hillsides, vic. Toledo 1700-1900m.
 5 woods, western side of Culagá Valley above Tabasco ± 2300m.
 9 plaza Toledo 1700m
 11 thickets

open hillside

stream bank

open hillside

Mar. 12

western side of Culagá valley north of Tabasco 1480-1550

- 20528 *Asclepias* H 2-3' pet. r, ant. o.
 20529 *Cobaea* H U. cor. pur, with paler
 20530 *Calopsis* ~~*Attalapha*~~ F H
 20531 *Cary.* S 6-8' rays w, cor. g. w.
 20532 *Cuphea* H 2-4' cor. tube deep pur,
 20533 *Asclepias* H U. paler dist.
 20534 *Cinchona* T 15-20' cor. brownish
 20535 *Mimosa* H 2-3'
 20536 *Sapot.* S 8-12'
 20537 *Strobilanthes* W. U.
 20538 *Inga* T 30-40' star w.
 20539 *Trophaeolum* H U. cal. tube g. spurred, x. at
 20540 *Salvia* H 2-3' pet. y. prox, r. dist.
 20541 *Boehmeria* S 6-10' cor. br. r.
 20542 *Solanum* S 8-10' pet. b. ~~star~~ y.
 20543 *Cordia* T 12-20' spreading crown
 20544 *Panicum* H Cor. wh.
 20545 *Phyllanthus* S small tree
 20546 *Solanum* H 2-3' erect stem, fr. ~~sterile~~ pet. wh., fr. gr.
 20547 *Passiflora manicata* V woody Cor. wh., ant. y.
 20548 *Stigmaphyllon* V woody invol. light gr., lvs.
 20549 *Eutropogon* V woody darker; sep. r. pet.
 20550 *Castilleja* H 1-3' stem Pet. y.
 20551 *Eupatorium* V woody Cor. pi.
 20552 *Begonia* S up to 10' Br. & calyx y, greenish
 20553 *Cissampelos* V herb Cor. & styles apparently
 20554 *Eutropogon* V woody wh., but rather rolled
 20555 *Morima* S 6-10' stem Pet. pi. ~~ant. g. y~~
 20556 *Camp.* H subsucculent fls. gr.
 20557 *Passiflora kalbreyeri* V ± woody Cor. pale purp.
 20558 *Dahlia* H 2-4' erect, branching above; pet. deep blue
 20559 *Gentianella* T 20-30' Rays y; fls. & dark
 20560 *Lupinus* H fr. gr. ± 1 cen. diam
 Rays wh.; fls. y
 fr. brownish-gr.
 st. deep purple.
 wings & h. pi. - purple

Mar. 12. Open hillside
 ant. 9. thickets
 O. H.
 eastern side of
 Culaga valley,
 north of Batoca
 1480-
 1550

center, r. lobes

th.

Open to

Balsa Valley
 tributary from west of
 Rio Culaga

1550-
 1800 m.

thickets
 bright red, cover purple

Pappus pi. wh.

open hillside
 Eastern slopes of Paramo del
 Batoca
 2000-
 2600 m.



